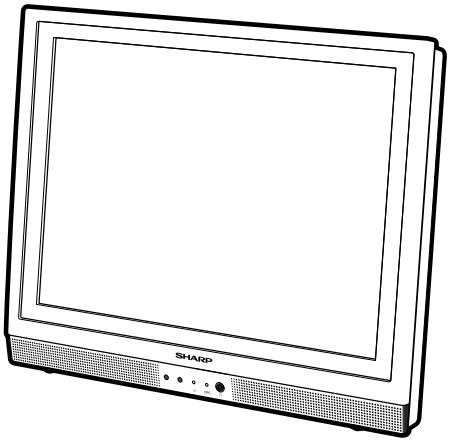
SHARP

SERVICE MANUAL

S83H2LC-20S1E



LCD COLOUR TELEVISION

MODEL LC-20S1E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

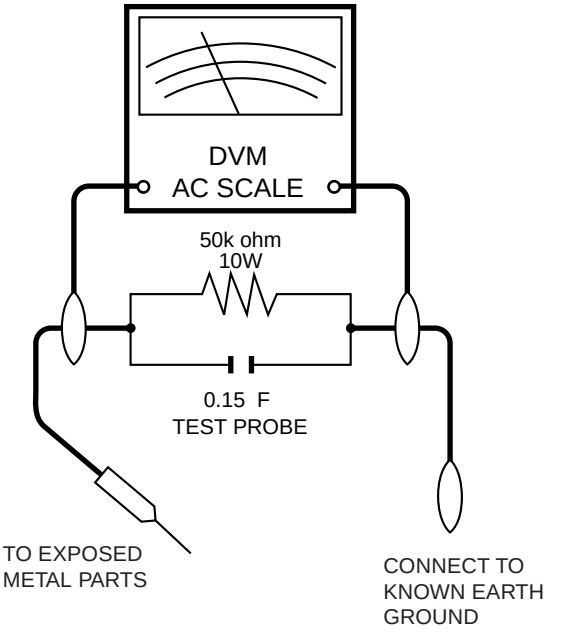
CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F3301(2A, 250V), F3302(1.25A, 250V), F6700 (1.25A, 250V), F6701 (1.25A, 250V), F6702 (1.25A, 250V), F6703 (1.25A, 250V) AND F6704 (1.25A, 250V) FUSE.

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 110~240 volt AC outlet, and connect the DC power cable into the receiver's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 50k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
  Any reading of 0.75V peak (this corresponds to 0.5 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " ⚠ " and shaded areas in the ***Replacement Parts Lists and Schematic Diagrams.***
For continued protection, replacement parts must be identical to those used in the original circuit.
The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

Precautions for using lead-free solder

1 Employing lead-free solder

"MAIN PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description		Code
ZHNDAi123250E	J	ϕ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm	1kg(1roll)	BM

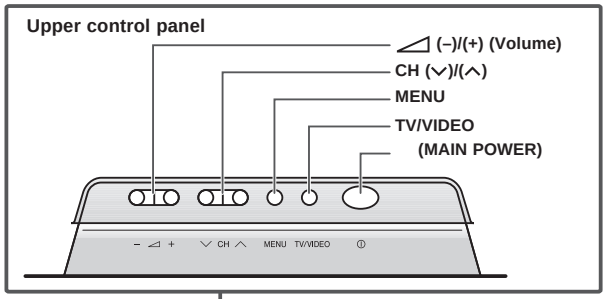
SPECIFICATIONS

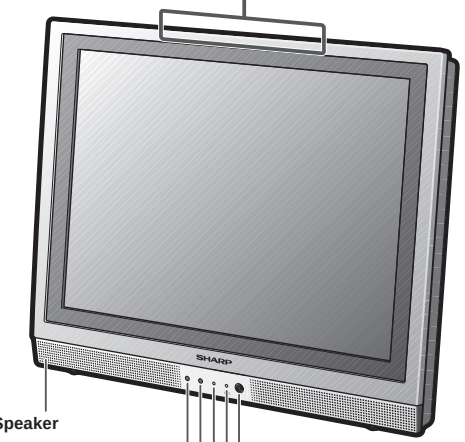
Item		20" LCD COLOUR TV, Model: LC-20S1E
LCD panel		20" Advanced Super View & BLACK TFT LCD
Number of dots		921,600 dots
Video colour system		PAL/SECAM/NTSC
TV	TV-Standard (CCIR)	B/G, I, D/K, L
	TV-Tuning System	Auto preset 200 ch.
	STEREO/BILINGUAL	NICAM, A2 stereo
	AUTO PRESET	YES
	CATV	~Hyper Band
Brightness		430 cd/m^2
Lamp life		60,000 hours
Viewing angles		H: 170¡ V: 170¡
Audio amplifier		2.1 W × 2
Speakers		4 cm × 7 cm 2 pcs.
Terminals	AV-IN 1	21 pin Euro-SCART
	AV-IN 2	S-VIDEO, VIDEO, AUDIO
	OUT	AUDIO
	Antenna	DIN
	Headphones	3.5 mm ¿ jack (Front)
OSD language		English/German/French/Spanish/Italian/Swedish/Dutch/Russian
Power requirement		DC 12 V, AC 110 V —240 V, 50/60 Hz
Weight		6.4 kg w/o accessories
Accessories		Operation Manual, Remote Control, Batteries (× 2), AC adapter, AC cord, Cable clamp

■ As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

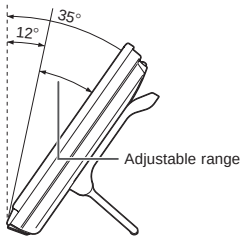
Part Names of Main Unit

Controls





The screen can be adjusted backwards to an angle between 12 degrees and 35 degrees. The screen cannot be set up straight. When changing the angle, make sure to hold the stand and adjust the screen to the best viewable angle.

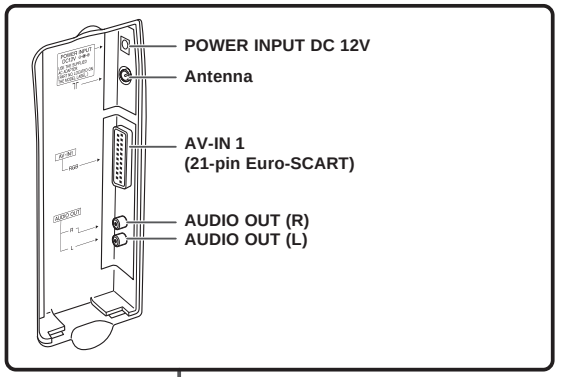


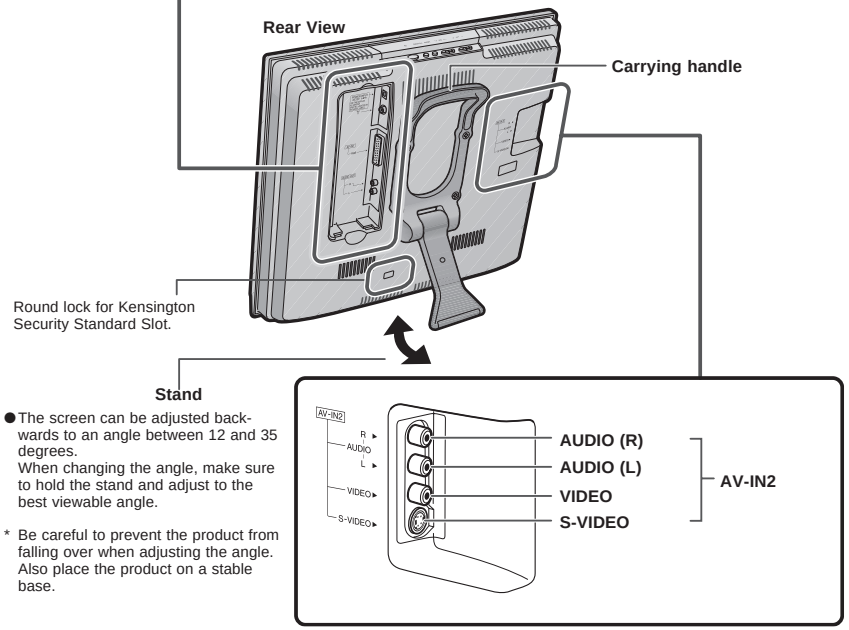
Headphone jack
Plug the headphone mini-plug into the Headphone jack located on the front of the TV set.

OPC sensor indicator (Optical Picture Control)
The Optical Picture Control indicator lights up green when the Brightness is set to Auto.

POWER/STANDBY/Remote sensor indicator
A green indicator lights when the power is on and a red indicator lights when in the standby mode (the indicator will not light when the main power is off). A red indicator blinks when the TV set receives the remote control signal.

Terminals





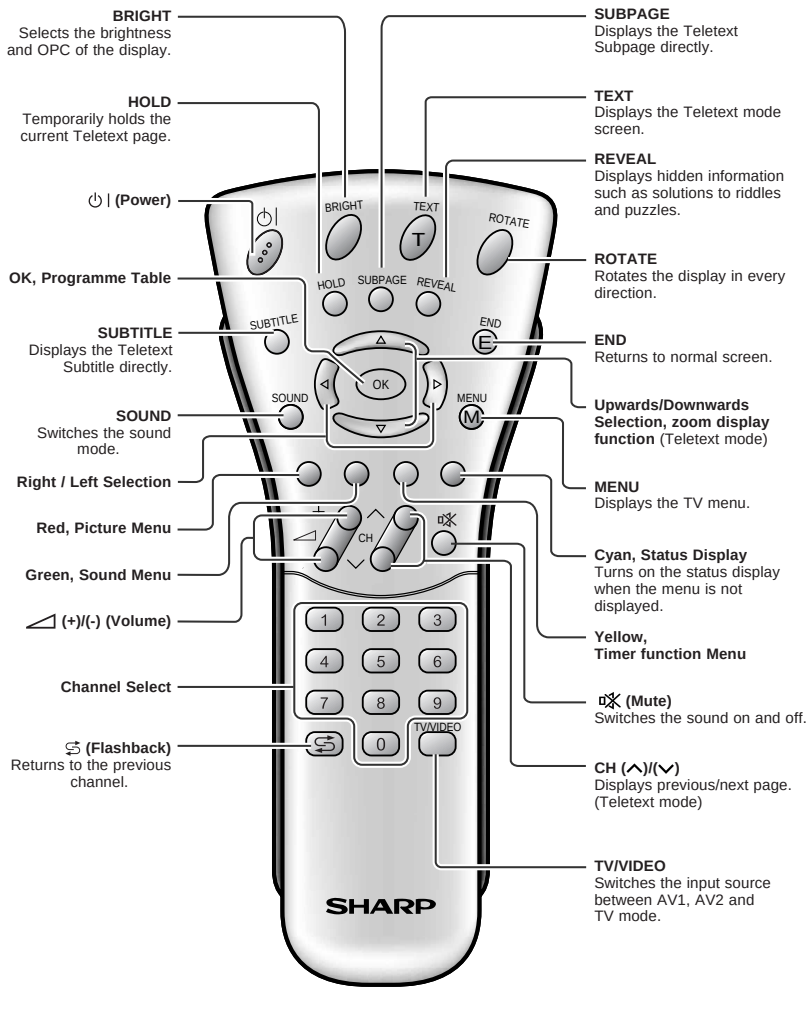
● The screen can be adjusted backwards to an angle between 12 and 35 degrees.
When changing the angle, make sure to hold the stand and adjust to the best viewable angle.

* Be careful to prevent the product from falling over when adjusting the angle. Also place the product on a stable base.

NOTE

- **TV/VIDEO**, **CH (∨)/(∧)** **(–)/(+) (Volume)** and **MENU** on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.

Part Names of Remote Control



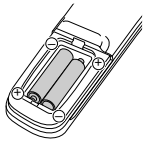
Installing Batteries in the Remote Control

Before using the LCD TV set for the first time, install the two R-03 (“AAA” size, UM/SUM-4) batteries supplied in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new R-03 (“AAA” size, UM/SUM-4) batteries.

1 Open the battery cover.

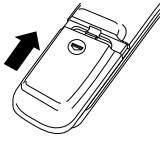
■ Slide the cover while pressing the (▼) part.

2 Insert two R-03 (“AAA” size, UM/SUM-4) batteries.



■ Position the positive and negative ends of the batteries as indicated in the compartment.

3 Replace the battery cover.



■ Engaging the lower claw with the remote control, close the cover.

⚠ Caution!

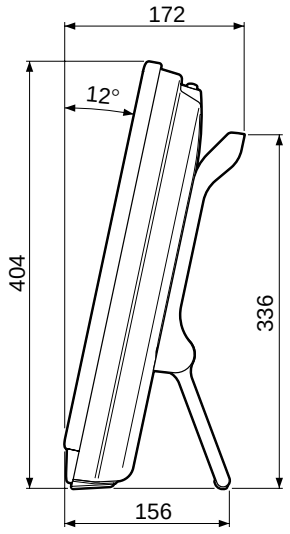
Precautions regarding batteries

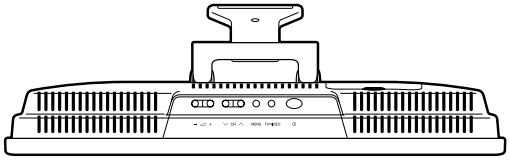
■ Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

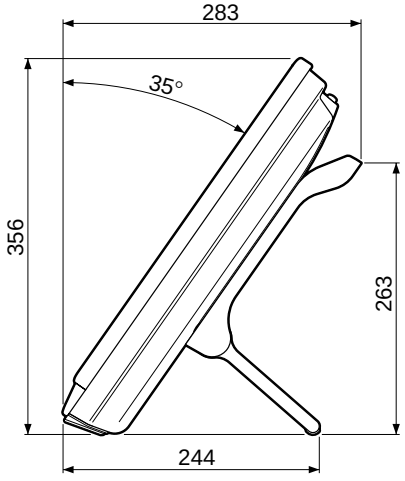
- Place batteries with their terminals corresponding to the (+) and (–) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off with a cloth.
- The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
- If the remote control is not to be used for an extended period of time, remove the batteries from the remote control.

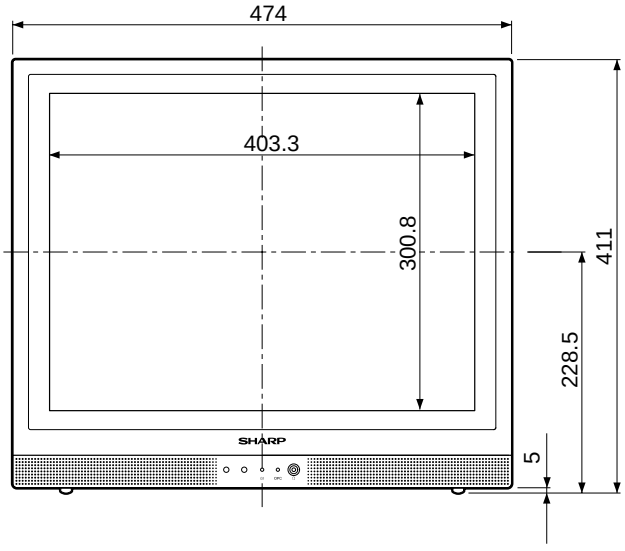
DIMENSIONS

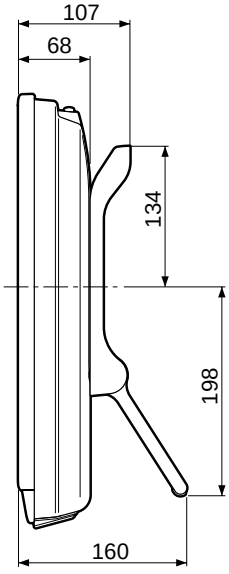
Unit: mm

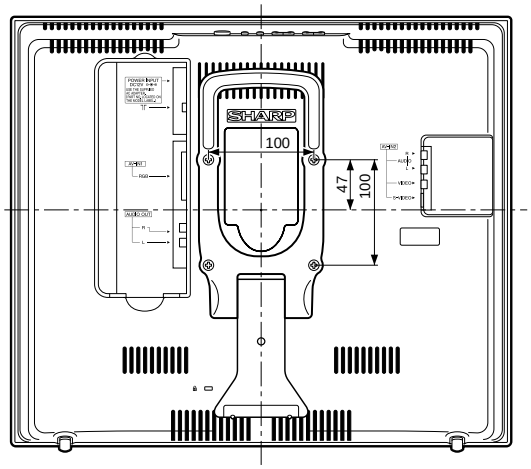






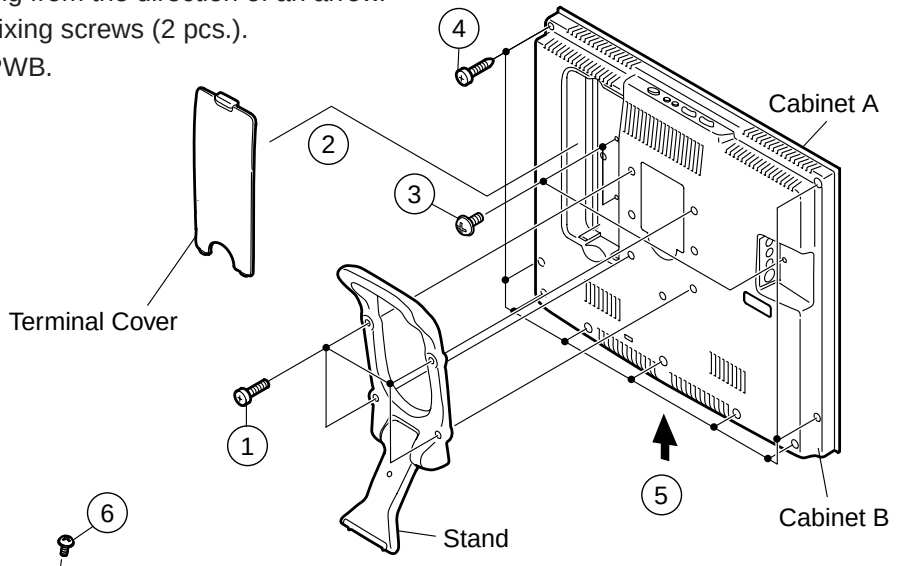


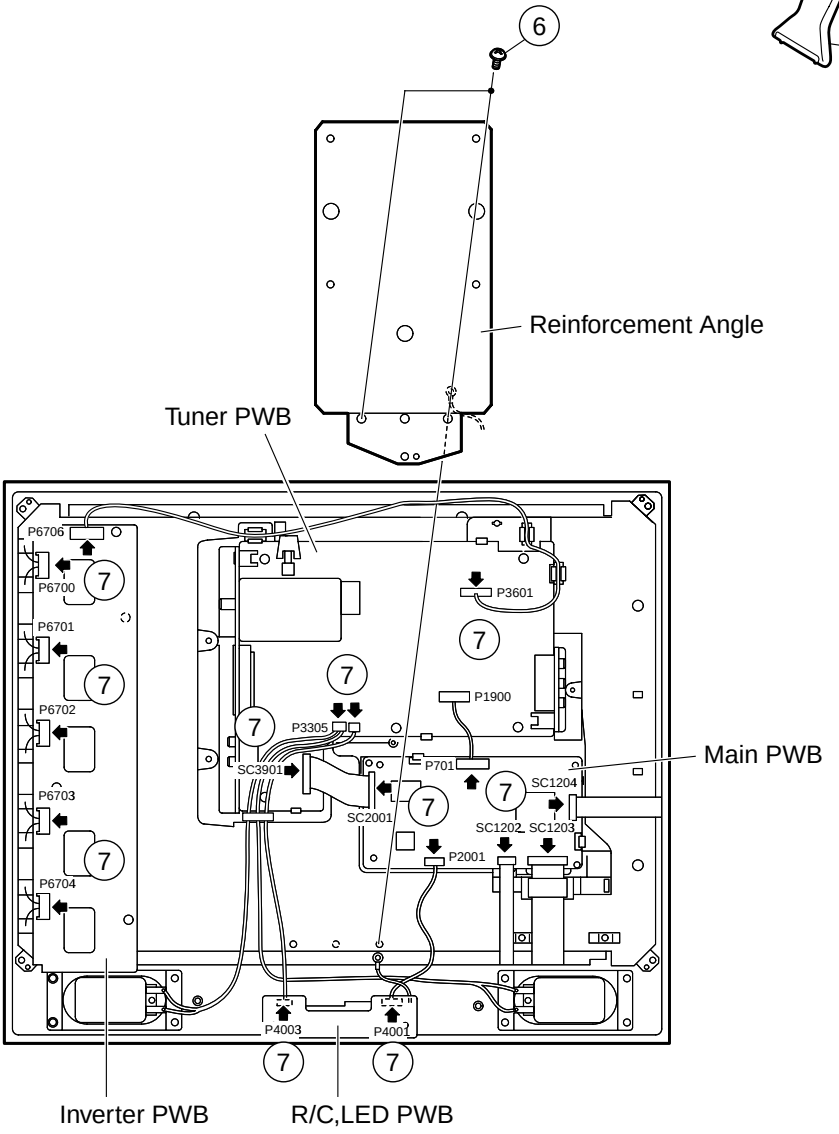




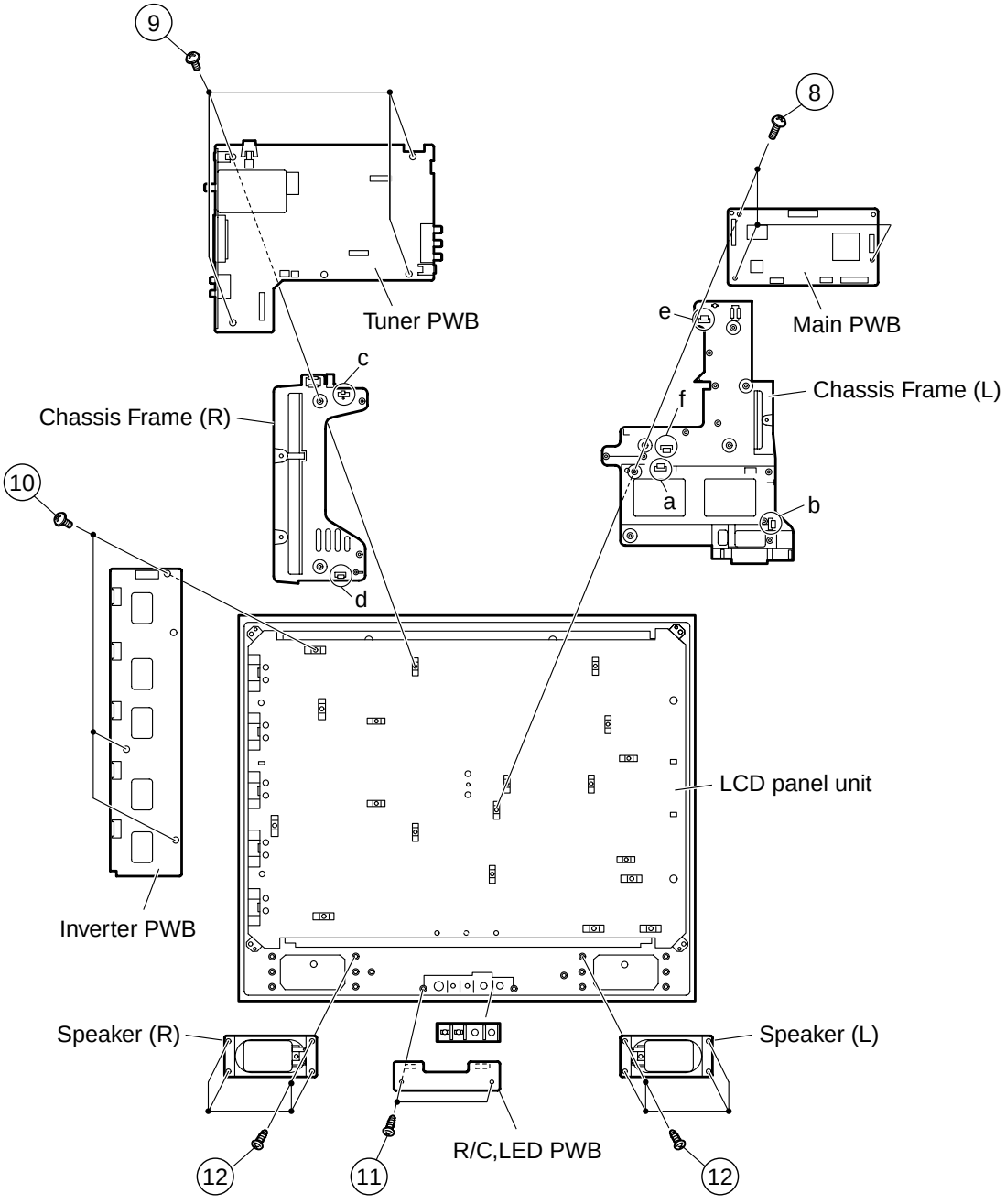
REMOVING OF MAJOR PARTS

1. Remove the stand fixing screws (4 pcs.).
2. Remove the terminal cover.
3. Remove the terminal section fixing screws (3 pcs.).
4. Remove the cabinet B fixing screws (9 pcs.).
5. Remove the cabinet B after opening from the direction of an arrow.
6. Remove the reinforcement angle fixing screws (2 pcs.).
7. Detach the connector from each PWB.



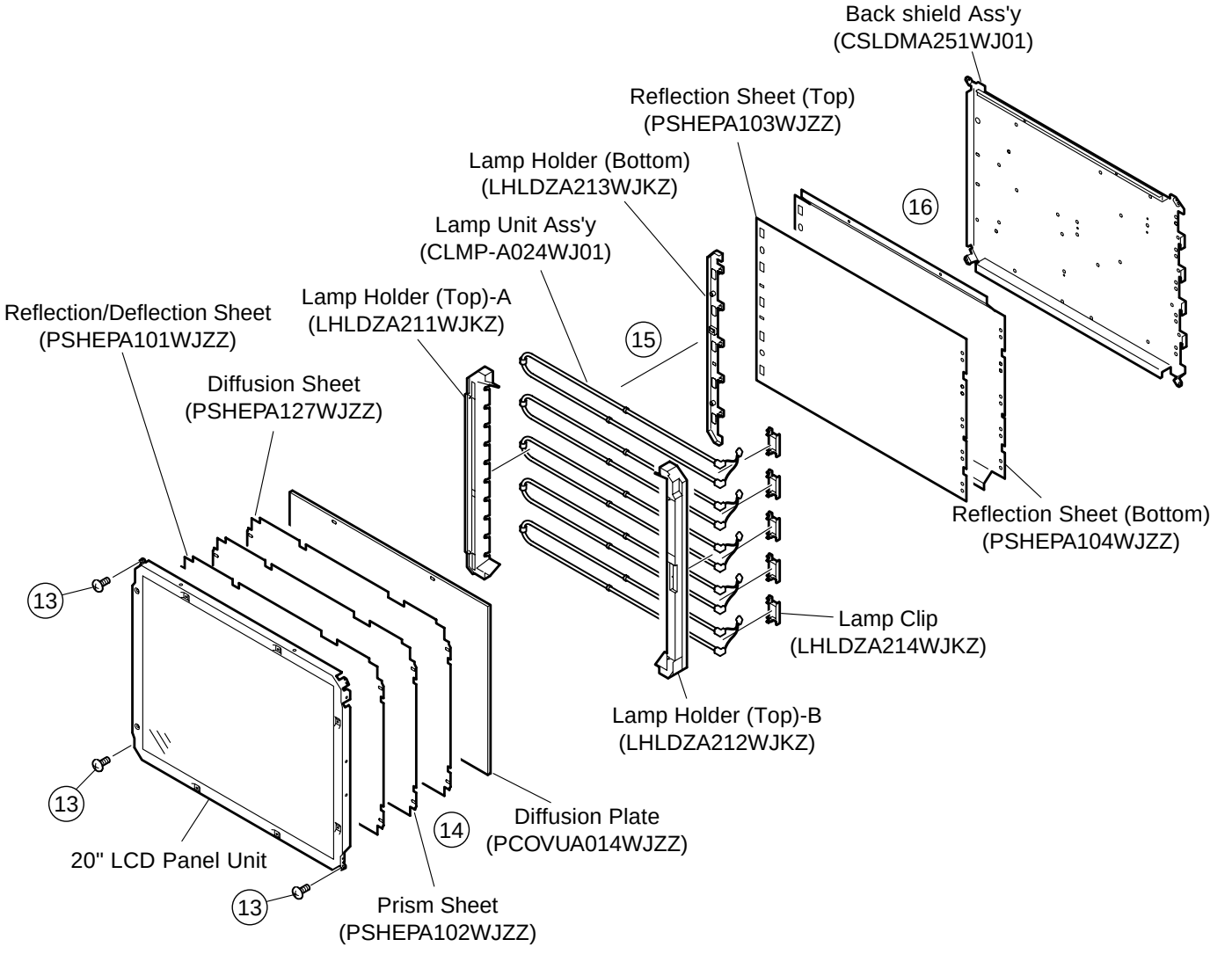


8. Remove the 3 lock screws from the main PWB and undo the hooks a and b. Lifting the other PWBs close to the hooks, draw out the main PWB.
9. Remove the 4 lock screws from the tuner PWB and undo the hooks c and d. Detach the chassis frame (right), together with its terminals, from the tuner PWB. Undo the hooks e and f in the same way. Detach the chassis frame (left), together with its terminals, from the tuner PWB.
10. Remove the 3 lock screws from the inverter PWB and take out the inverter PWB.
11. Remove the 2 lock screws from the R/C, LED PWB and take out the R/C, LED PWB.
12. Remove the 4 lock screws each from the right and left speakers and take out both the speakers.

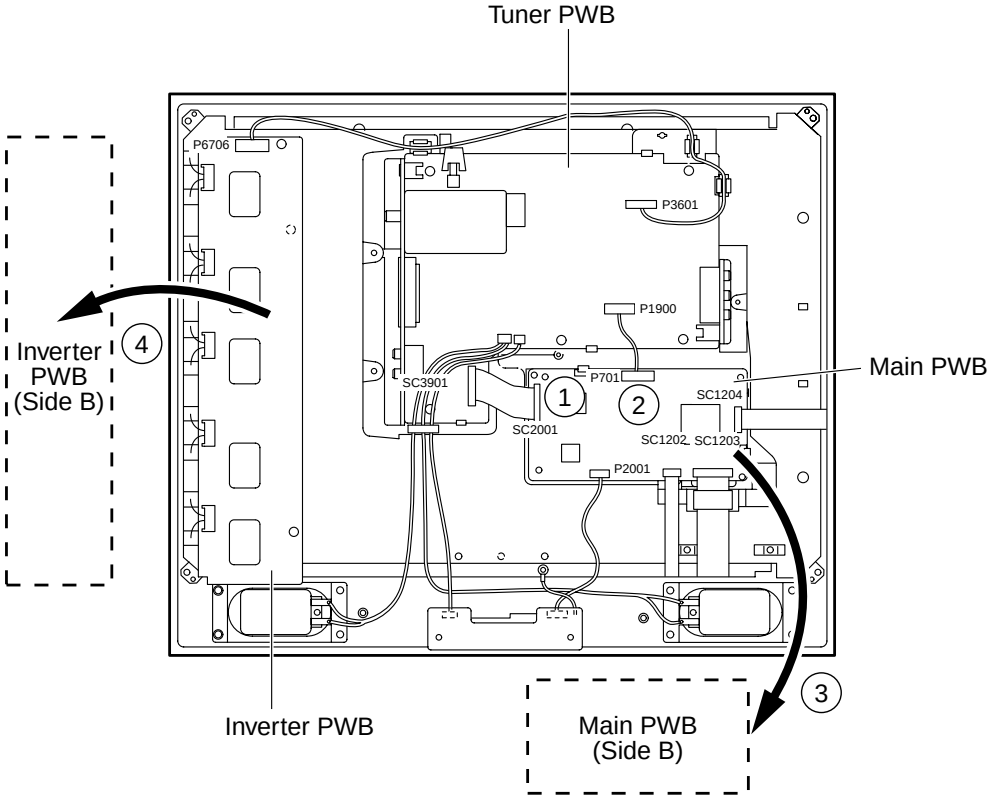


- Precautions in handling the LCD panels
  1. Work in a clean room (with humidities below 50%).
  2. Be sure to wear an anti-static armband.
  3. Handle the panels on an electro-conductive mat.
  4. Be careful not to fall, shake and shock the panels.

13. Remove the 3 lock screws from the LCD panel and detach the LCD panel.
14. Remove the reflection/polarization sheet, prism sheet, diffusion sheet and diffusion panel.
15. Detach the lamp holders (top)-A, (top)-B and (bottom) from the lamp unit assembly.
16. Detach the reflection sheets (top) and (bottom) from the back shield.



- **Precautions at the time of the side B(back) service of main and Inverter unit.**
  1. Remove only SC2001 of the FFC for connection between Main unit(SC2001) and Tuner unit(SC3901), and connect the extended cable (QCNW-A369WJZZ) for service.
  2. Remove only P701 of the FFC for connection between Main unit(P701) and Tuner unit(P1900), and connect the extended cable (QCNW-B594WJZZ) for service.
  3. Remove the main unit fixing screws(3 pcs.), a substrate is reversed.
  4. Remove the Inverter unit fixing screws (3 pcs.), a substrate is reversed.



Step	Part No.	Description
1	QCNW-A369WJZZ	Extension Cable 50-pin Main (SC2001)-Tuner (SC3901)
2	QCNW-B594WJZZ	Extension Cable 13-pin Main (P701)-Tuner (P1900)

ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

Preparation for adjustments

Use the dedicated AC adaptor or stable DC power supply.
LC-20S1E AC adaptor: UADP-A043WJPZ
DC power supply: 12V 5.0A

1. Adjusting procedure

- Checker adjustment
  Power ON (Adjustment processing mode) → +B adjustment → Counter bias adjustment → TAMP (Contrast) adjustment → White balance adjustment

2. Entering the adjustment processing mode

There are the following two methods.

- Setting the pin (81)(KEY4) or pin (82)(KEY5) of IC2001 (microprocessor) to GND, turn on the power.
- A "POWER" key is made on with pushing an "TV/VIDEO" and "MENU" keys at the same time.(K of the inspection process mode is displayed by the upper left of the image plane.) → Next, "CH (∨)" and "VOL (–)" keys are pushed at the same time.(It becomes the image plane of the adjustment process mode.).....When it is canceled, it is made to turn it off.(Even off in the "MAIN POWER" key, off with R/C are good.)

3. Key operation in the adjustment process mode

- The receiving channel UP/DOWN is performed with the "CH (∧)/(∨)" keys.
  One push ... The UP/DOWN tuning is performed per channel.
  Continuous push ... The UP/DOWN search is performed until a next receivable station is found.
- Various adjustments
  The adjustment is performed for each item by the "MENU", "Menu cursor", "CH (∧)/(∨)" or "VOL (+)/(–)" keys (LCD TV set and remote control).
- Adjustment item is chosen with the Menu cursor upward/downward keys.
- The adjustment item makes a toggle operation with the “MENU” key input. (Next item)
  If the "MENU" key is input while the bottom item is selected, it moves to the top item on the next page.
- Press the auto preset button on the remote controller in the adjustment process mode, and the top item of the next page will show up regardless of which item appears now.
  Page 1 → Page 2 → ... → Page 66 → Page 1
- Press the manual memory button on the remote controller in the adjustment process mode, and the top item of the same page will show up.
- UP/DOWN of each adjustment vale selected is performed with the VOL (+)/(–) keys input.

4. Initialization

When the microprocessor (IC2001) or the EEPROM (IC2007, IC2009) has been replaced or when the EEPROM has been initialized, readjust the each adjustments.

4-1. Connect the pins (81) and (82) of IC2001 (microprocessor) to GND, and turn on the power.

4-2. Check that the model name is (A661).

4-3. Select the inch size (20).

4-4. LED changes green from red after setting finish and about 15 seconds, initialization is completed, and it becomes adjustment mode.

4-5. Writing the model-by-model data

For the Ver.1.00A microprocessor, get it initialized first and then make the settings, listed below, on it. (The microprocessor version is indicated at the bottom of Adjustment Process Page 1.)

Ver.1.00A data reprogramming (INCH SIZE [20])		
Adjustment process page	Item	OSD settings
11	PAL BRIGHTNESS	-1 → -8
12	PAL TV PKCFSOFT7C	6 → 4
47	PAL TV LDLY	0 → +1
47	PAL AV LDLY	0 → +1

Ver.1.00A data reprogramming (INCH SIZE [20]) (Only for U.K)		
Adjustment process page	Item	OSD settings
11	PAL TV COLOR	41 → 34
11	PAL AV COLOR	41 → 34
11	PAL TV TINT	0 → +5
11	PAL TV TINT	0 → +5
12	PAL TV PKCFSOFT7C	4 → 6

5. Adjustment

5-1. +B adjustment...Page 1 +B-ADJ

Adjust the voltage of the pin (4) of P1900 to 5.00 ±0.02V with R3714.

Note: Since 5.0V is a reference voltage of all power voltage, adjust it precisely.

5-2. Counter-bias adjustment

Vary the "COM BIAS" setting on Page 2 of the adjustment process mode so that the contrast be sharpest (black looks most sinking).

5-3. TAMP adjustment

1) Receive the upper left of 75% white half colour bar signal.
2) See if the "Y" reading on page 2 of the adjustment process mode is somewhere following. If not, make the "PAL TAMP" adjustment to get the "Y" reading in the range of AE thru BD.
3) If the adjustment of "PAL TAMP" is executed, write its adjustment value to the "SECAM TAMP" manually.

(Screen of the page 2 of the adjustment processing menu OSD)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0		2																									
1		▶	C	O	M		B	I	A	S															9	0	
2			P	A	L		T	A	M	P															2	7	
3			S	E	C	A	M		T	A	M	P													2	7	
4			R	C	U	T	O	F	F																	0	
5			G	C	U	T	O	F	F																	0	
6			B	C	U	T	O	F	F																	0	
7			R	G	A	I	N																			0	
8			G	G	A	I	N																			0	
9			B	G	A	I	N																			0	
10				Y																					B	6	
11			T	A	M	P		H																	B	D	
12			T	A	M	P		L																	A	E	
13																											

Y Data
(White 75%)

5-4. White balance adjustment

Adjust "RCUTOFF", "BCUTOFF", "RGAIN" and "BGAIN" on the page 2 of the adjustment processing so as to obtain the colour of the same level as the standard set.

6. Factory Setting

6-1. Perform a factory setting after completing all adjustments.
6-2. A "POWER" keys is made on with pushing an "TV/VIDEO" and "MENU" keys at the same time.
6-3. "K" of the inspection process mode is displayed on the screen upper left.
6-4. CH (∧) and VOL (+) keys are pushed about 2 seconds at the same time.
6-5. Release keys, if "E" is displayed on the screen upper left and "COMPLETE" is displayed on the bottom of it.
6-6. After a while, a power will be in a standby mode and a setup will be finished.
Note: "First installation" serves on "Deutsch".

7. Lamp error detection

7-1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.
If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the followings occur.

① The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV turns from green to red.)
② If the situation ① happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

7-2. Countermeasures

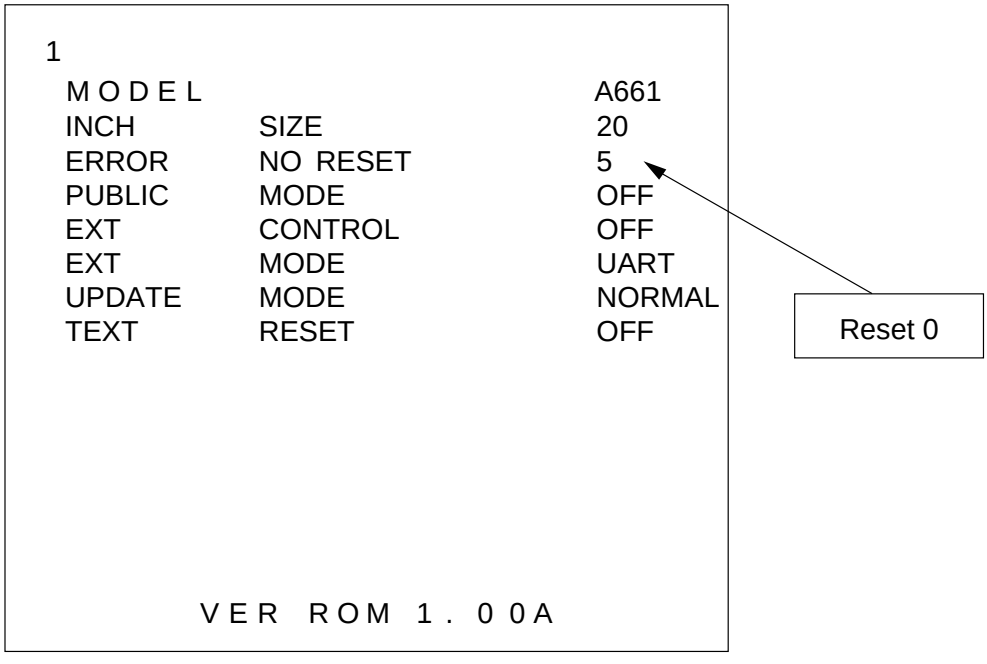
7-2-1. Check when turning OFF the lamp error detection

When television is turned OFF by the lamp error detection mentioned above, it enters the adjustment process with the power LED red. Entering the adjustment process turns OFF the error detection and turns ON TV.
This enables the operation check to detect errors in the lamp or lamp circuit.
Check whether "ERROR NO RESET" on line 3, page 1 of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed.

7-2-2. Resetting of the lamp error count

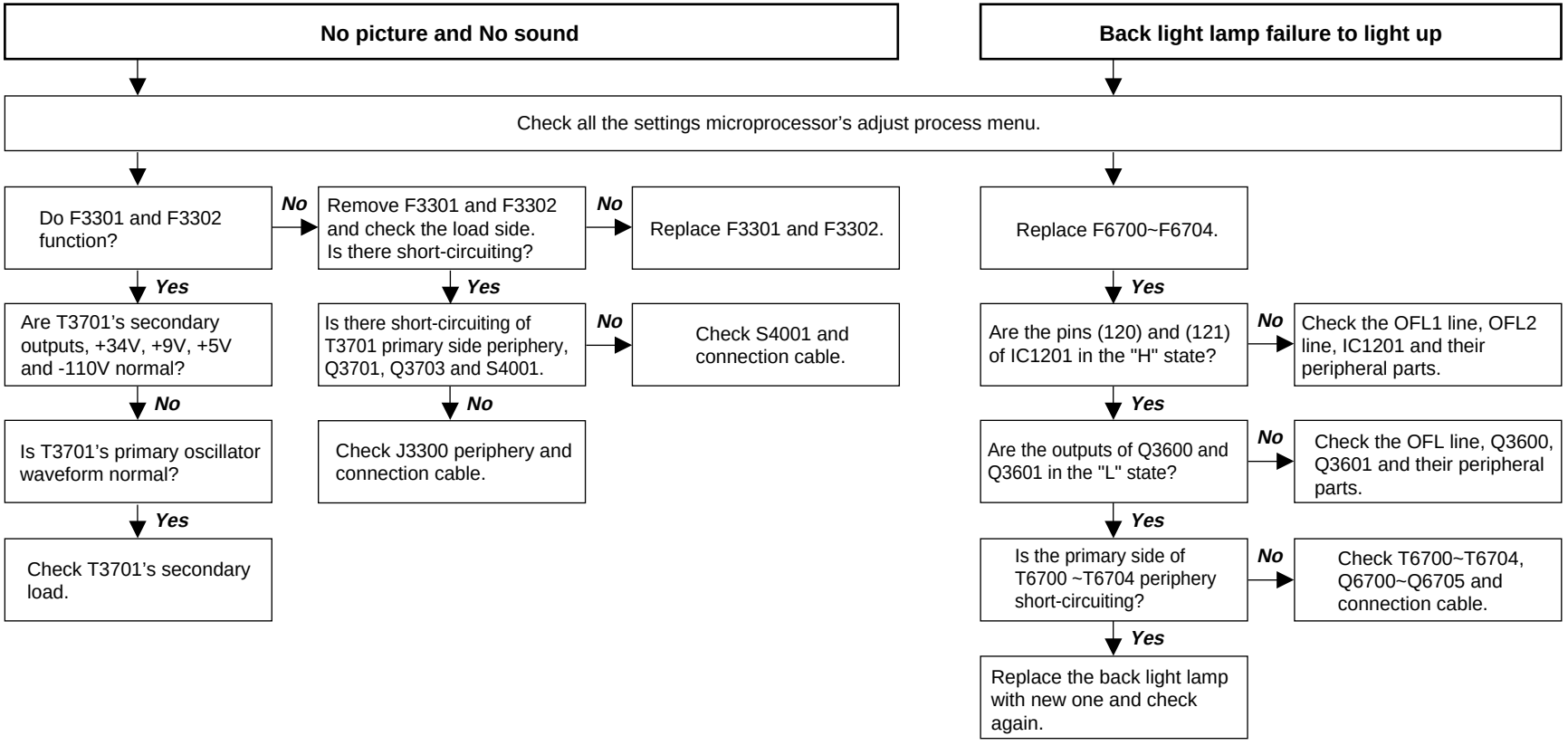
After confirming that the lamp or lamp circuit is normal, reset the lamp error count. Select "ERROR NO RESET" on line 3, page 1 of the adjustment process and set the number to 0 using the volume button.

Page 1 of the adjustment process

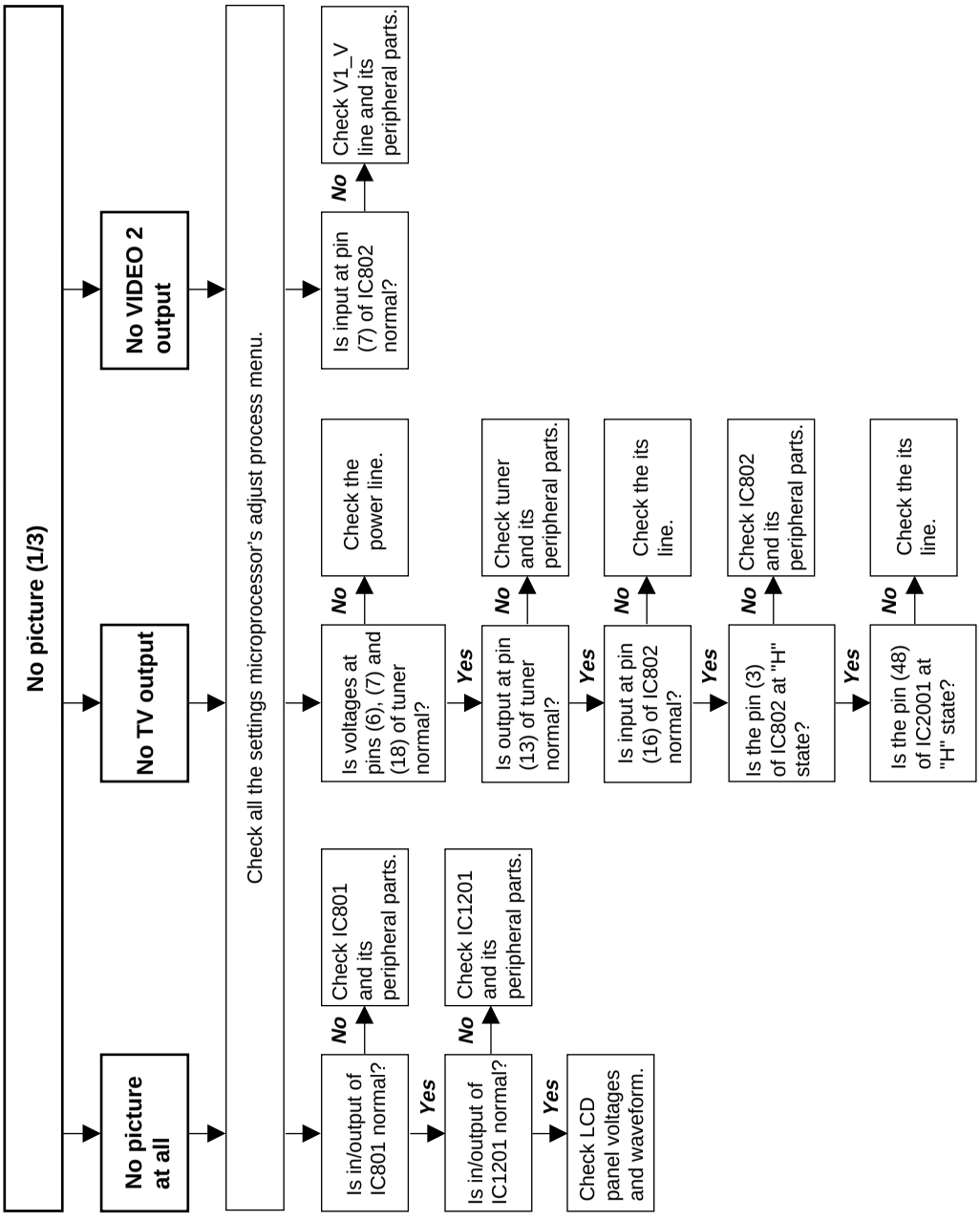


Afterwards, perform the operation check to confirm that the lamp error detection does not function.

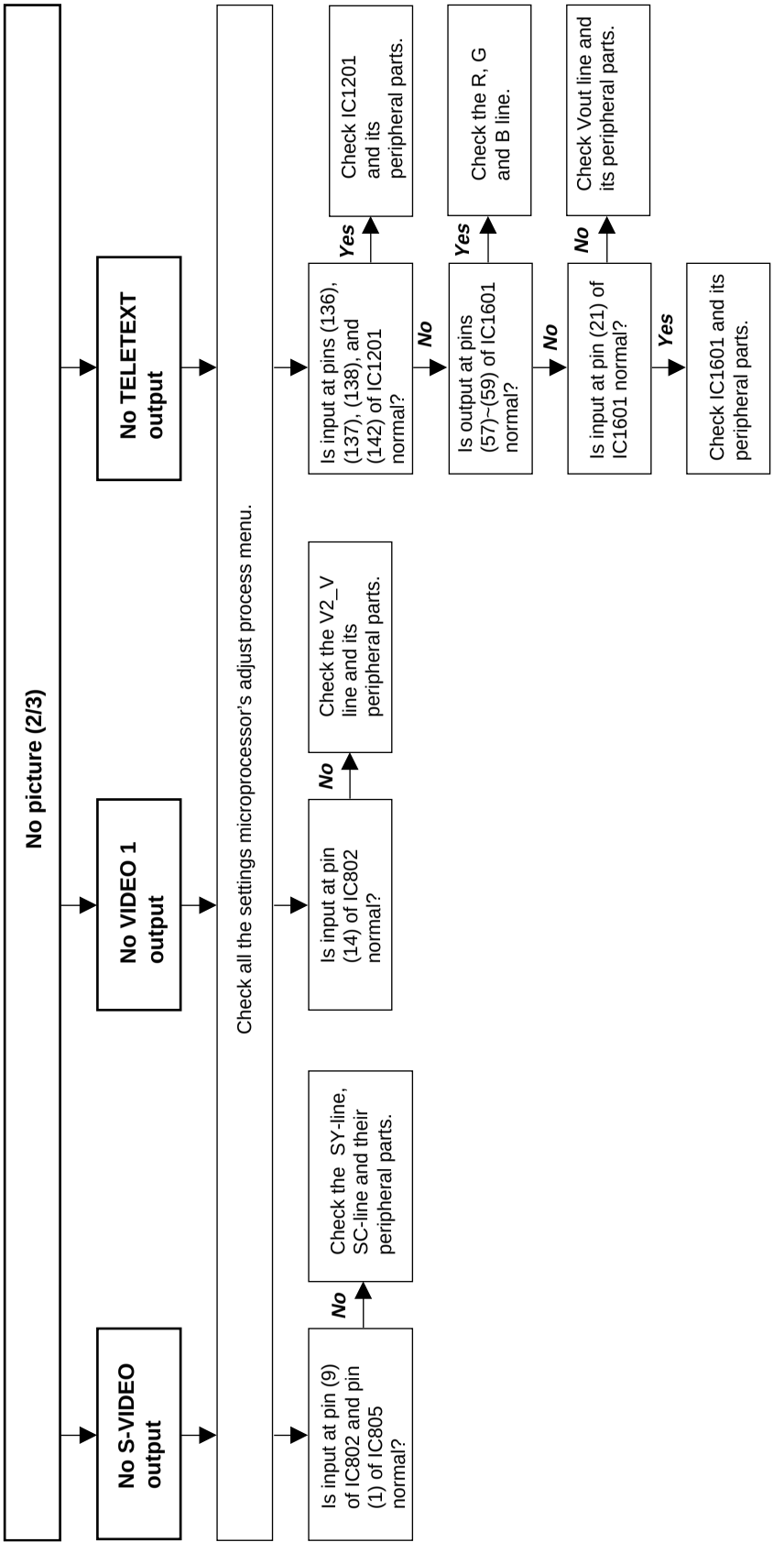
TROUBLE SHOOTING TABLE


No picture and No sound
Back light lamp failure to light up
Check all the settings microprocessor's adjust process menu.
Do F3301 and F3302 function?
No
Remove F3301 and F3302 and check the load side. Is there short-circuiting?
No
Replace F3301 and F3302.
Yes
Are T3701's secondary outputs, +34V, +9V, +5V and -110V normal?
Yes
Is there short-circuiting of T3701 primary side periphery, Q3701, Q3703 and S4001.
No
Check S4001 and connection cable.
No
Is T3701's primary oscillator waveform normal?
No
Check J3300 periphery and connection cable.
Yes
Check T3701's secondary load.
Replace F6700~F6704.
Yes
Are the pins (120) and (121) of IC1201 in the "H" state?
No
Check the OFL1 line, OFL2 line, IC1201 and their peripheral parts.
Yes
Are the outputs of Q3600 and Q3601 in the "L" state?
No
Check the OFL line, Q3600, Q3601 and their peripheral parts.
Yes
Is the primary side of T6700 ~T6704 periphery short-circuiting?
No
Check T6700~T6704, Q6700~Q6705 and connection cable.
Yes
Replace the back light lamp with new one and check again.

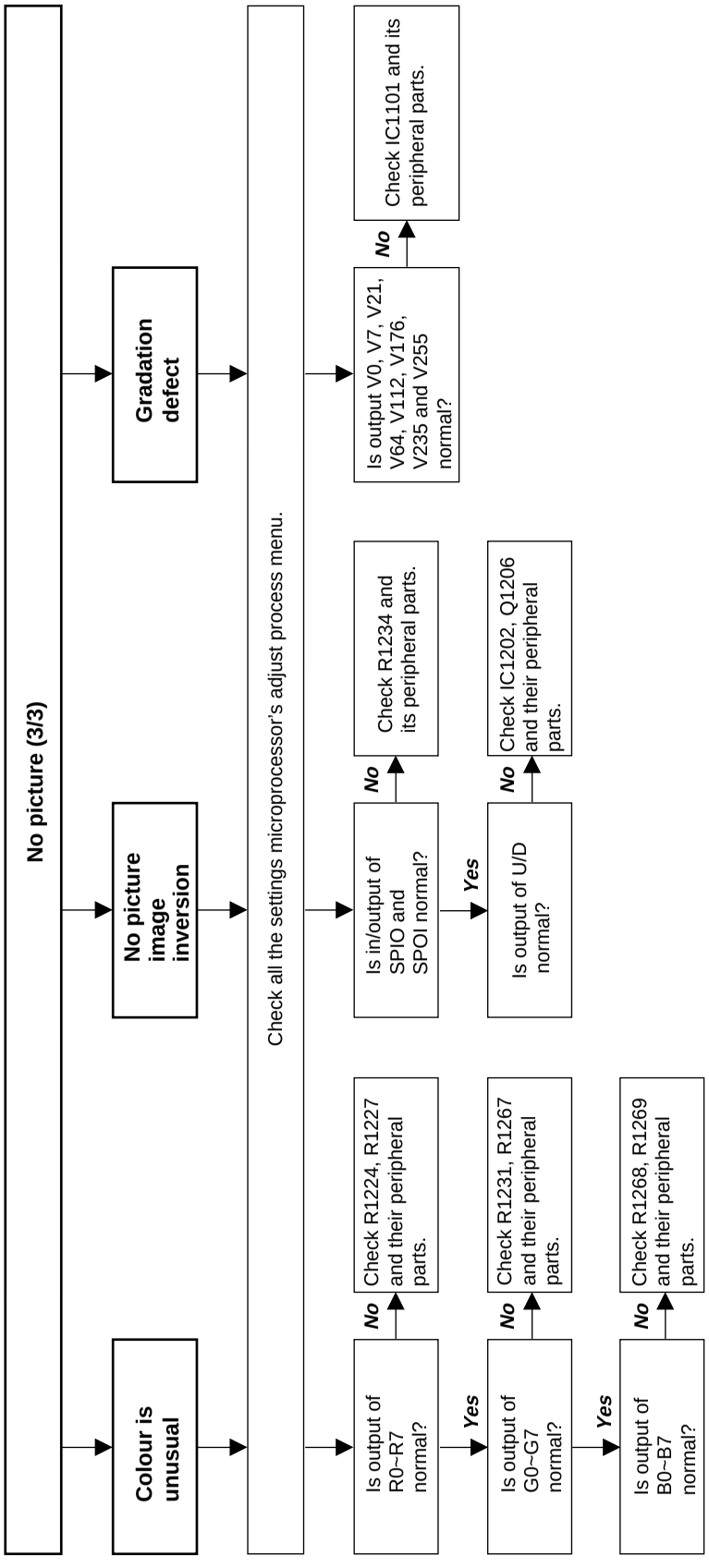
TROUBLE SHOOTING TABLE (Continued)


No picture (1/3)
No picture at all
No TV output
No VIDEO 2 output
Check all the settings microprocessor's adjust process menu.
Is in/output of IC801 normal?
No
Check IC801 and its peripheral parts.
Yes
Check LCD panel voltages and waveform.
Is in/output of IC1201 normal?
No
Check IC1201 and its peripheral parts.
Yes
Is voltages at pins (6), (7) and (18) of tuner normal?
No
Check the power line.
Yes
Is output at pin (13) of tuner normal?
No
Check tuner and its peripheral parts.
Yes
Is input at pin (16) of IC802 normal?
No
Check the its line.
Yes
Is the pin (3) of IC802 at "H" state?
No
Check IC802 and its peripheral parts.
Yes
Is the pin (48) of IC2001 at "H" state?
No
Check the its line.
Is input at pin (7) of IC802 normal?
No
Check V1_V line and its peripheral parts.

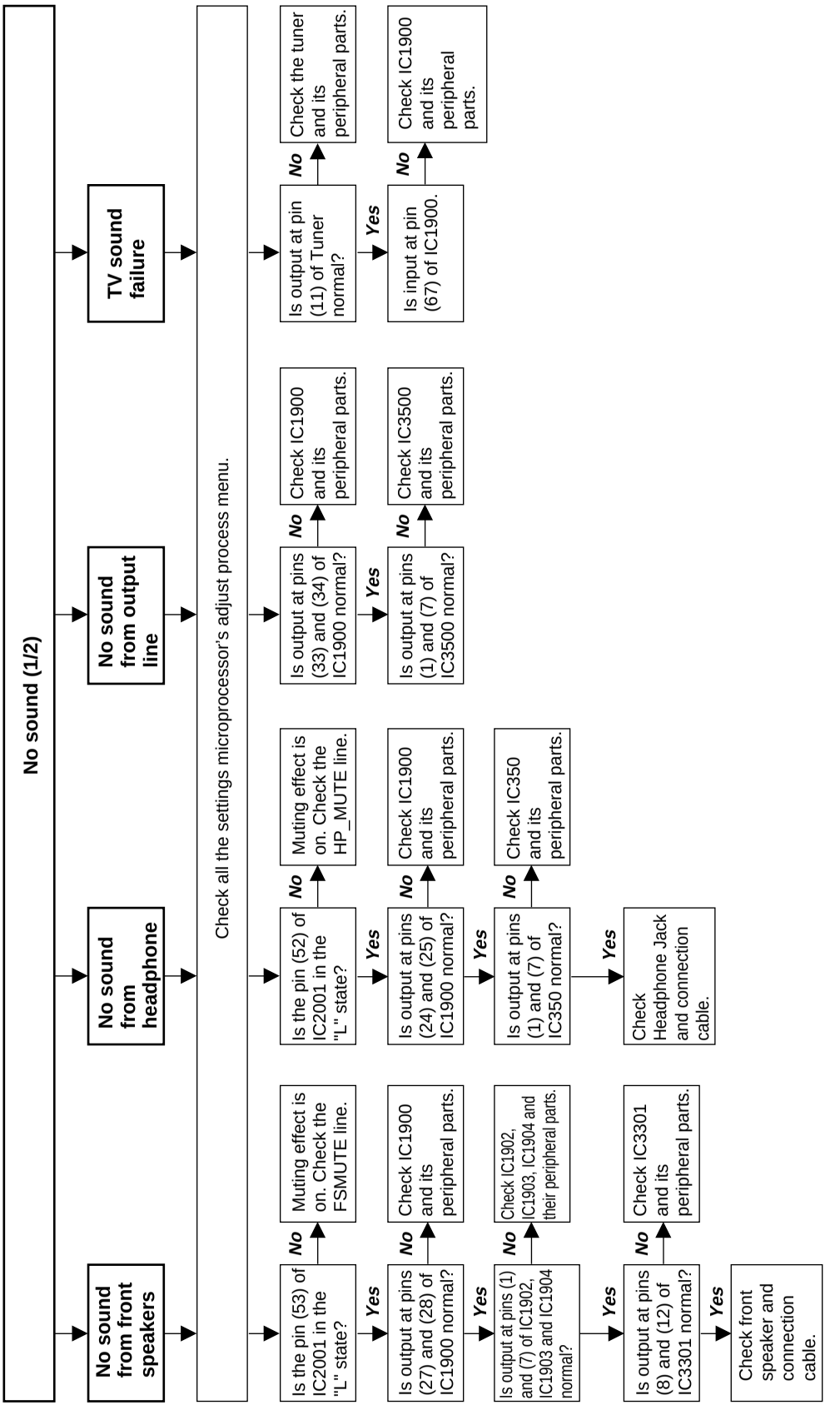
TROUBLE SHOOTING TABLE (Continued)


No picture (2/3)
No S-VIDEO output
No VIDEO 1 output
No TELETEXT output
Check all the settings microprocessor's adjust process menu.
Is input at pin (9) of IC802 and pin (1) of IC805 normal?
No
Check the SY-line, SC-line and their peripheral parts.
Is input at pin (14) of IC802 normal?
No
Check the V2_V line and its peripheral parts.
Is input at pins (136), (137), (138), and (142) of IC1201 normal?
No
Yes
Check IC1201 and its peripheral parts.
Is output at pins (57)~(59) of IC1601 normal?
No
Yes
Check the R, G and B line.
Is input at pin (21) of IC1601 normal?
No
Yes
Check Vout line and its peripheral parts.
Check IC1601 and its peripheral parts.

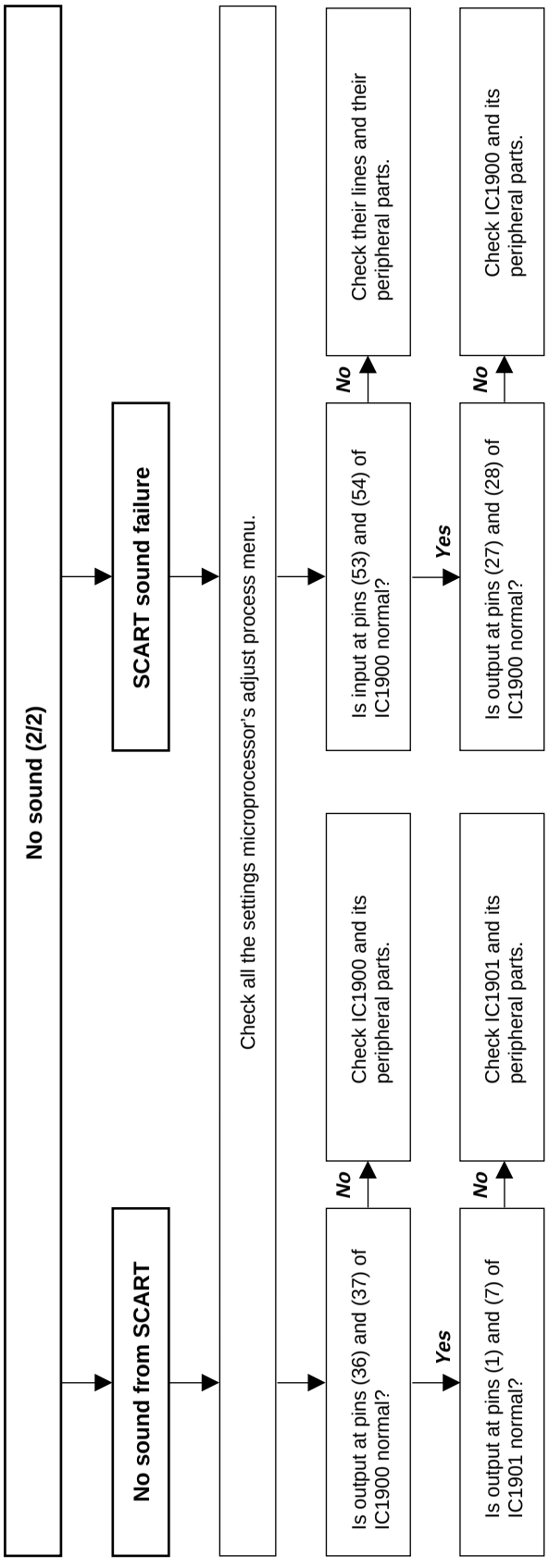
TROUBLE SHOOTING TABLE (Continued)


No picture (3/3)
Colour is unusual
No picture image inversion
Gradation defect
Check all the settings microprocessor's adjust process menu.
Is output of R0~R7 normal?
No
Check R1224, R1227 and their peripheral parts.
Yes
Is output of G0~G7 normal?
No
Check R1231, R1267 and their peripheral parts.
Yes
Is output of B0~B7 normal?
No
Check R1268, R1269 and their peripheral parts.
Is in/output of SPIO and SPOI normal?
No
Check R1234 and its peripheral parts.
Yes
Is output of U/D normal?
No
Check IC1202, Q1206 and their peripheral parts.
Is output V0, V7, V21, V64, V112, V176, V235 and V255 normal?
No
Check IC1101 and its peripheral parts.

TROUBLE SHOOTING TABLE (Continued)

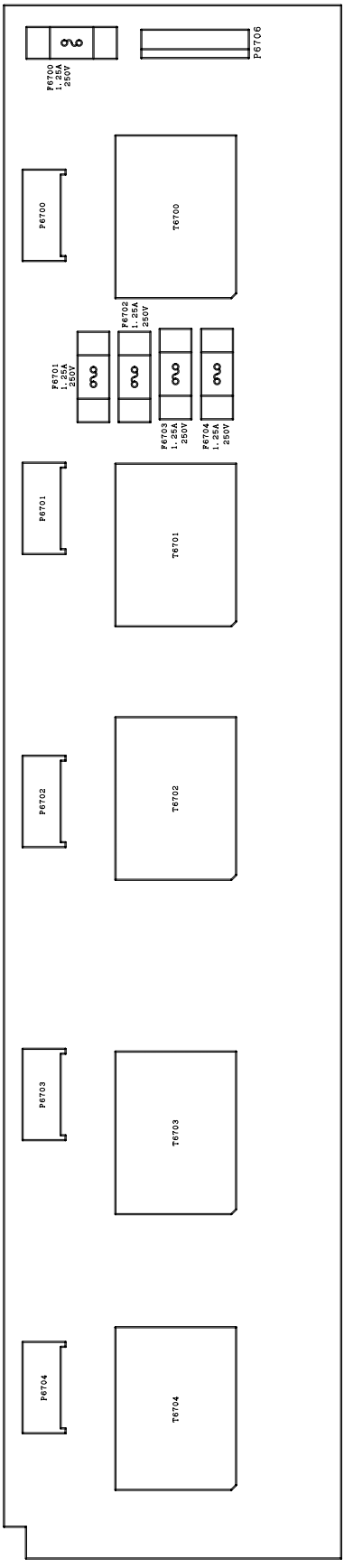

No sound (1/2)
No sound from front speakers
No sound from headphone
No sound from output line
TV sound failure
Check all the settings microprocessor's adjust process menu.
Is the pin (53) of IC2001 in the "L" state?
Yes
No
Muting effect is on. Check the FSMUTE line.
Is output at pins (27) and (28) of IC1900 normal?
Yes
No
Check IC1900 and its peripheral parts.
Is output at pins (1) and (7) of IC1902, IC1903 and IC1904 normal?
Yes
No
Check IC1902, IC1903, IC1904 and their peripheral parts.
Is output at pins (8) and (12) of IC3301 normal?
Yes
No
Check IC3301 and its peripheral parts.
Check front speaker and connection cable.
Is the pin (52) of IC2001 in the "L" state?
Yes
No
Muting effect is on. Check the HP_MUTE line.
Is output at pins (24) and (25) of IC1900 normal?
Yes
No
Check IC1900 and its peripheral parts.
Is output at pins (1) and (7) of IC350 normal?
Yes
No
Check IC350 and its peripheral parts.
Check Headphone Jack and connection cable.
Is output at pins (33) and (34) of IC1900 normal?
Yes
No
Check IC1900 and its peripheral parts.
Is output at pins (1) and (7) of IC3500 normal?
Yes
No
Check IC3500 and its peripheral parts.
Is output at pin (11) of Tuner normal?
Yes
No
Check the tuner and its peripheral parts.
Is input at pin (67) of IC1900.
Yes
No
Check IC1900 and its peripheral parts.

TROUBLE SHOOTING TABLE (Continued)

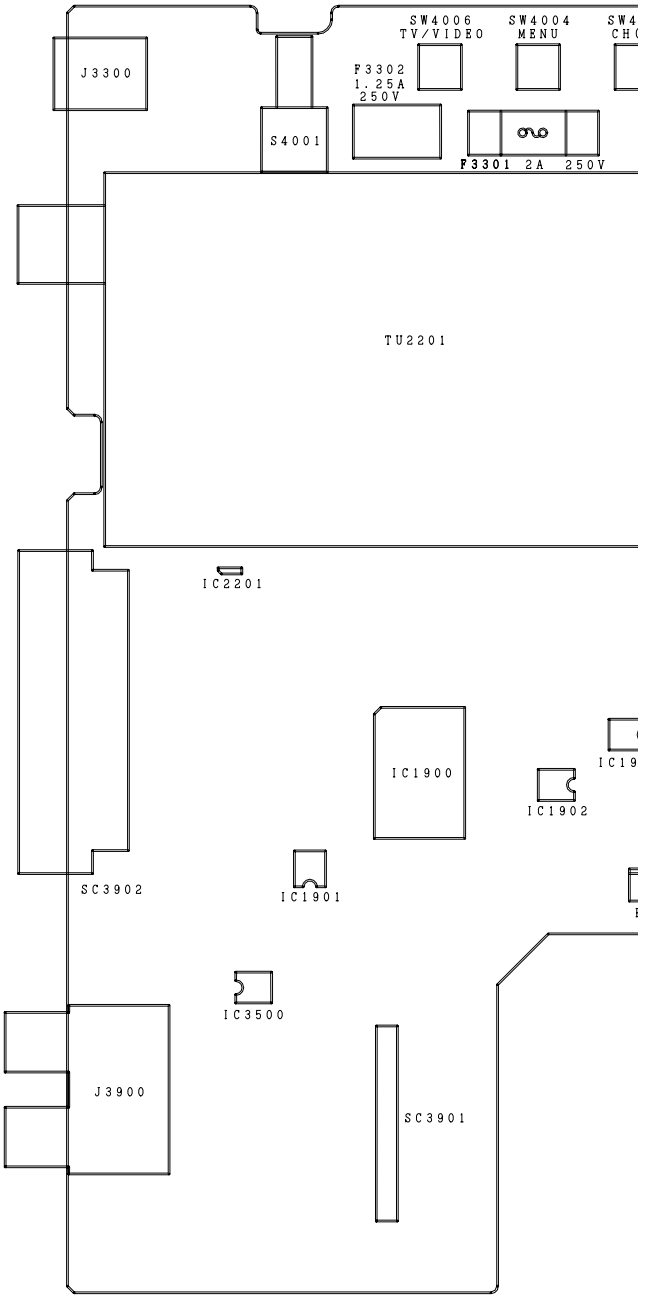

No sound (2/2)
No sound from SCART
SCART sound failure
Check all the settings microprocessor's adjust process menu.
Is output at pins (36) and (37) of IC1900 normal?
No
Check IC1900 and its peripheral parts.
Yes
Is output at pins (1) and (7) of IC1901 normal?
No
Check IC1901 and its peripheral parts.
Is input at pins (53) and (54) of IC1900 normal?
No
Check their lines and their peripheral parts.
Yes
Is output at pins (27) and (28) of IC1900 normal?
No
Check IC1900 and its peripheral parts.

CHASSIS LAYOUT

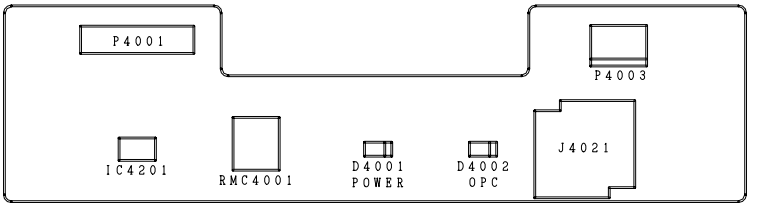
INVERTER Unit



TUNER Unit

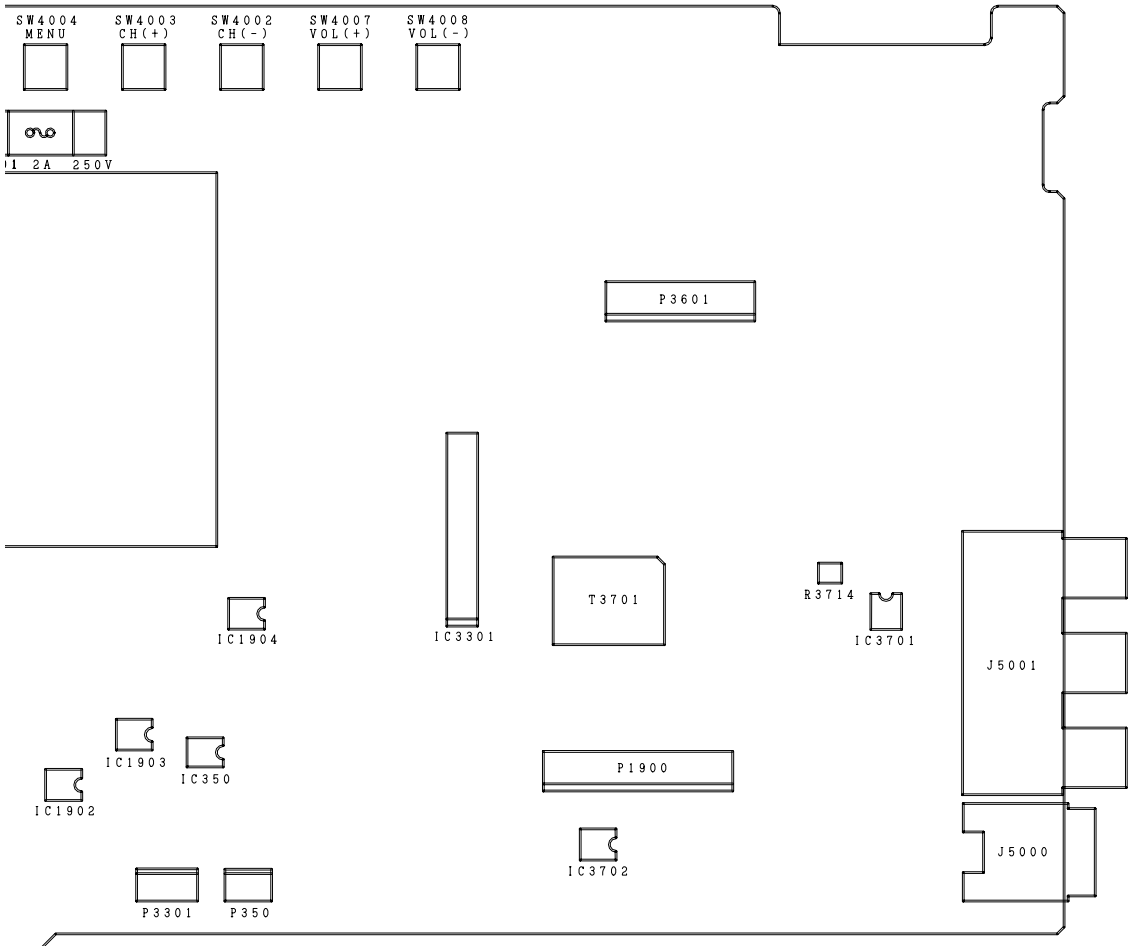


R/C, LED Unit

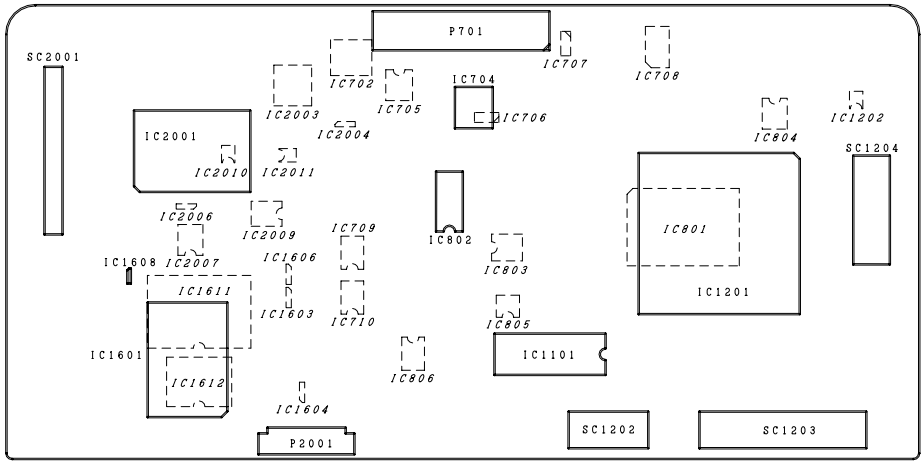


H G F E D C B A

1 2 3 4 5 6 7 8 9 10

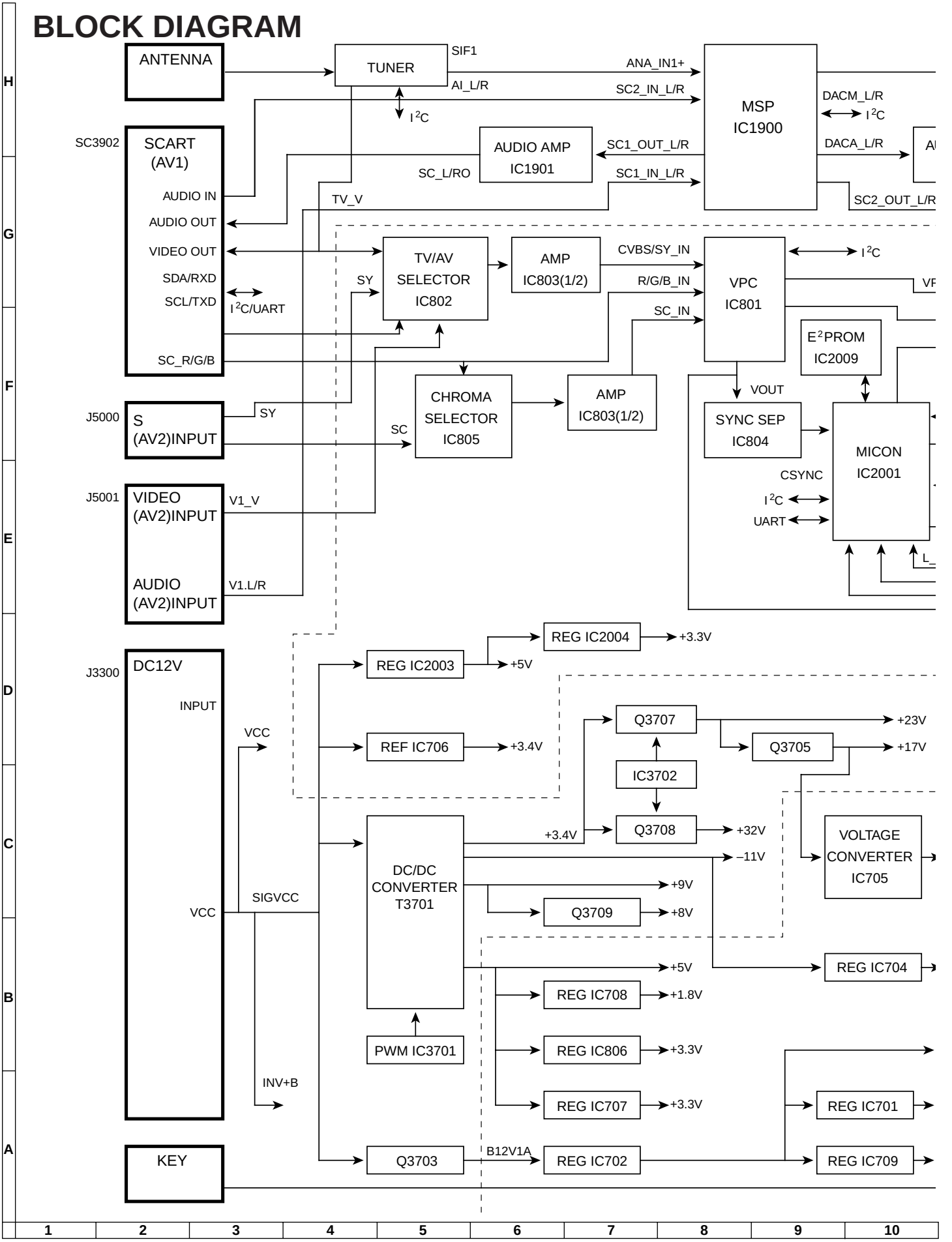


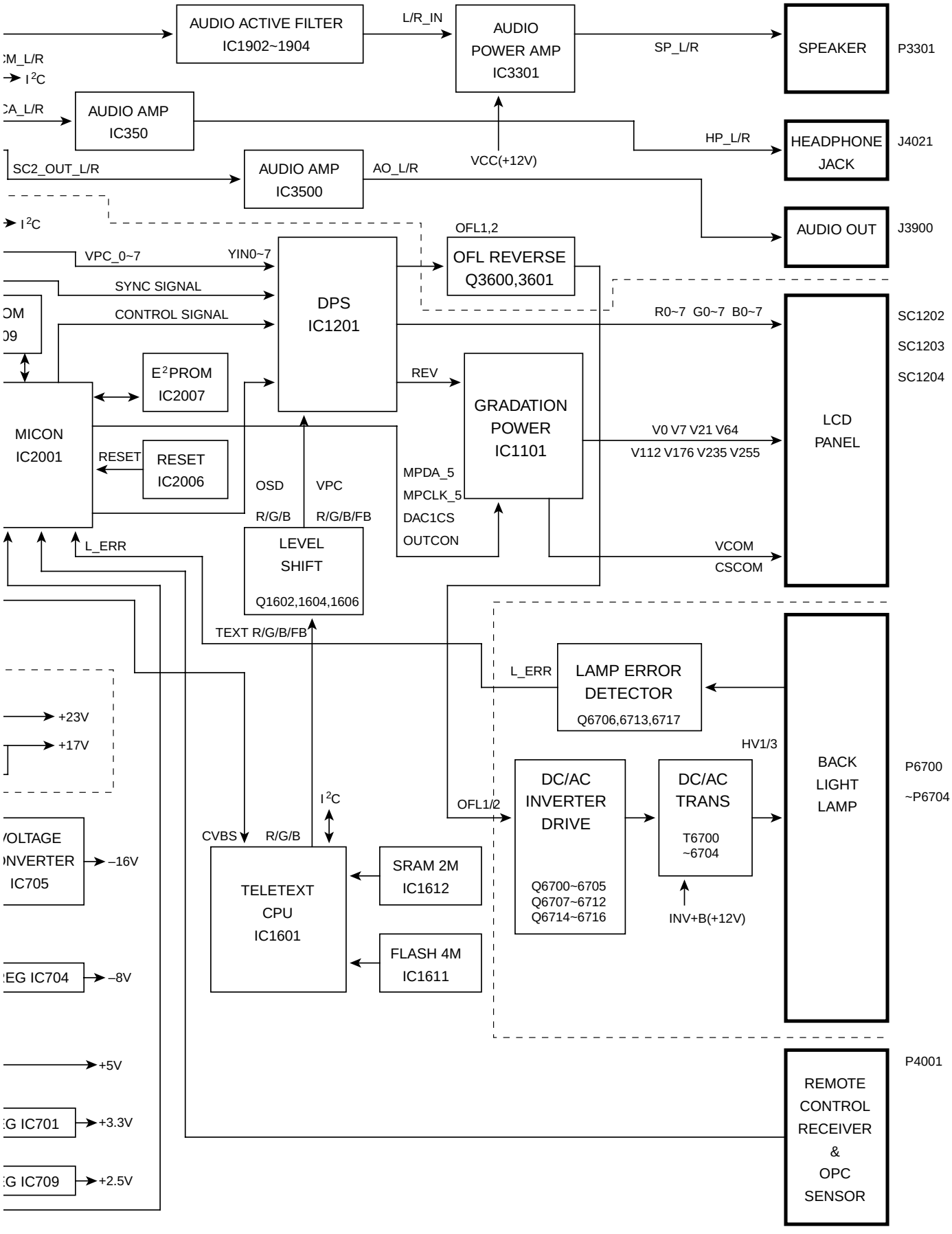
MAIN Unit



10	11	12	13	14	15	16	17	18	19

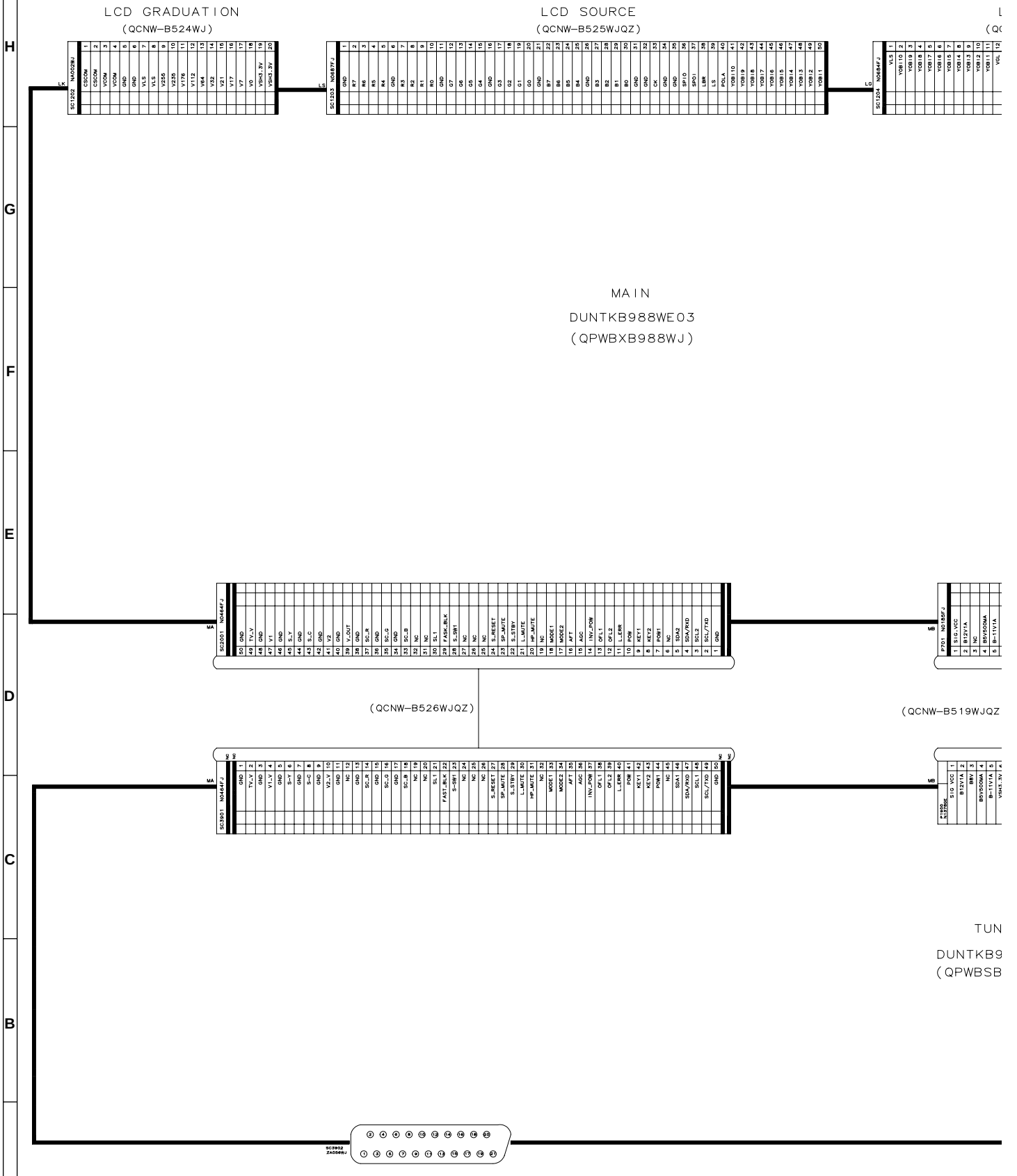
BLOCK DIAGRAM

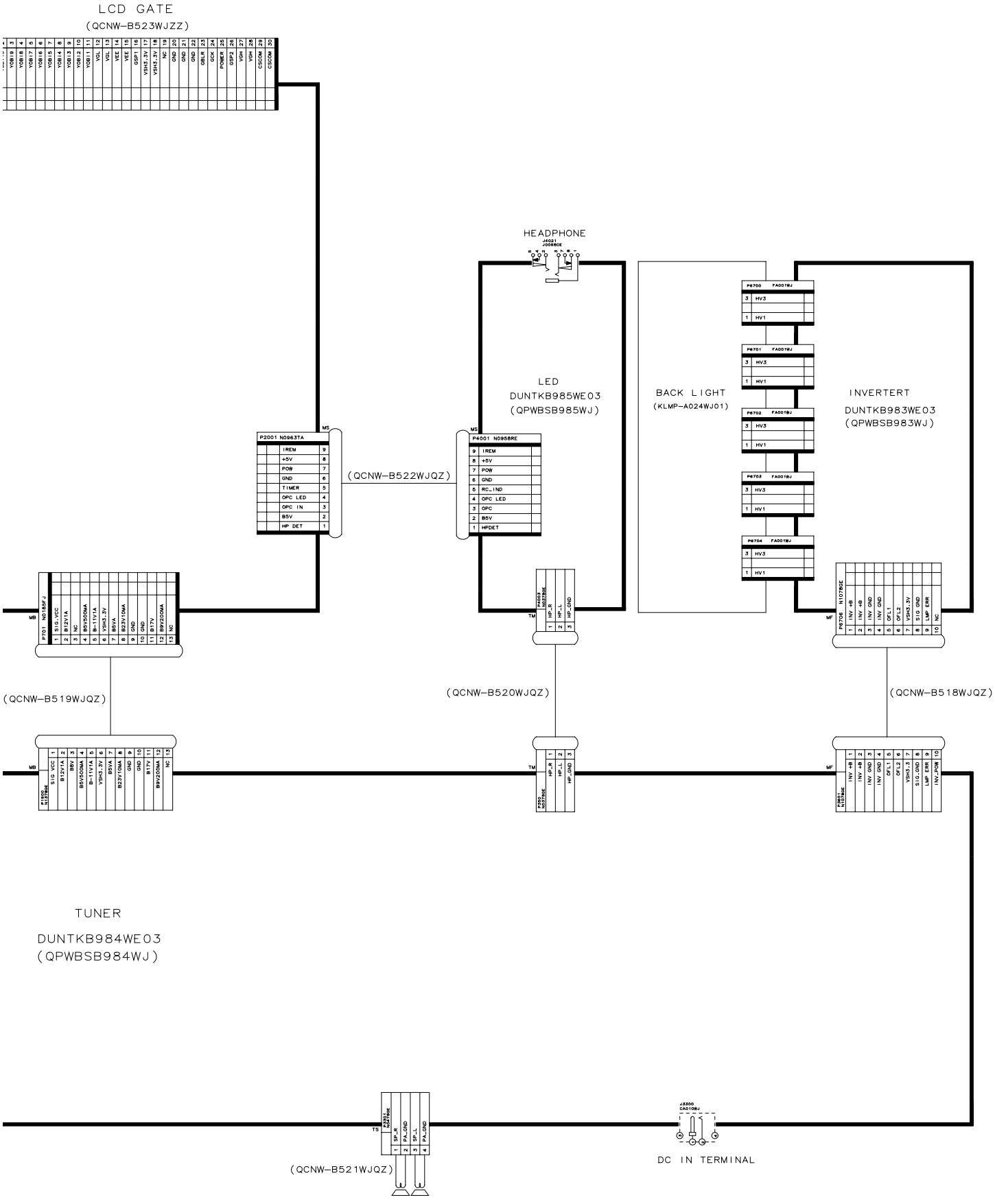




10	11	12	13	14	15	16	17	18	19

OVERALL WIRING DIAGRAM





10	11	12	13	14	15	16	17	18	19

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

CAPACITOR

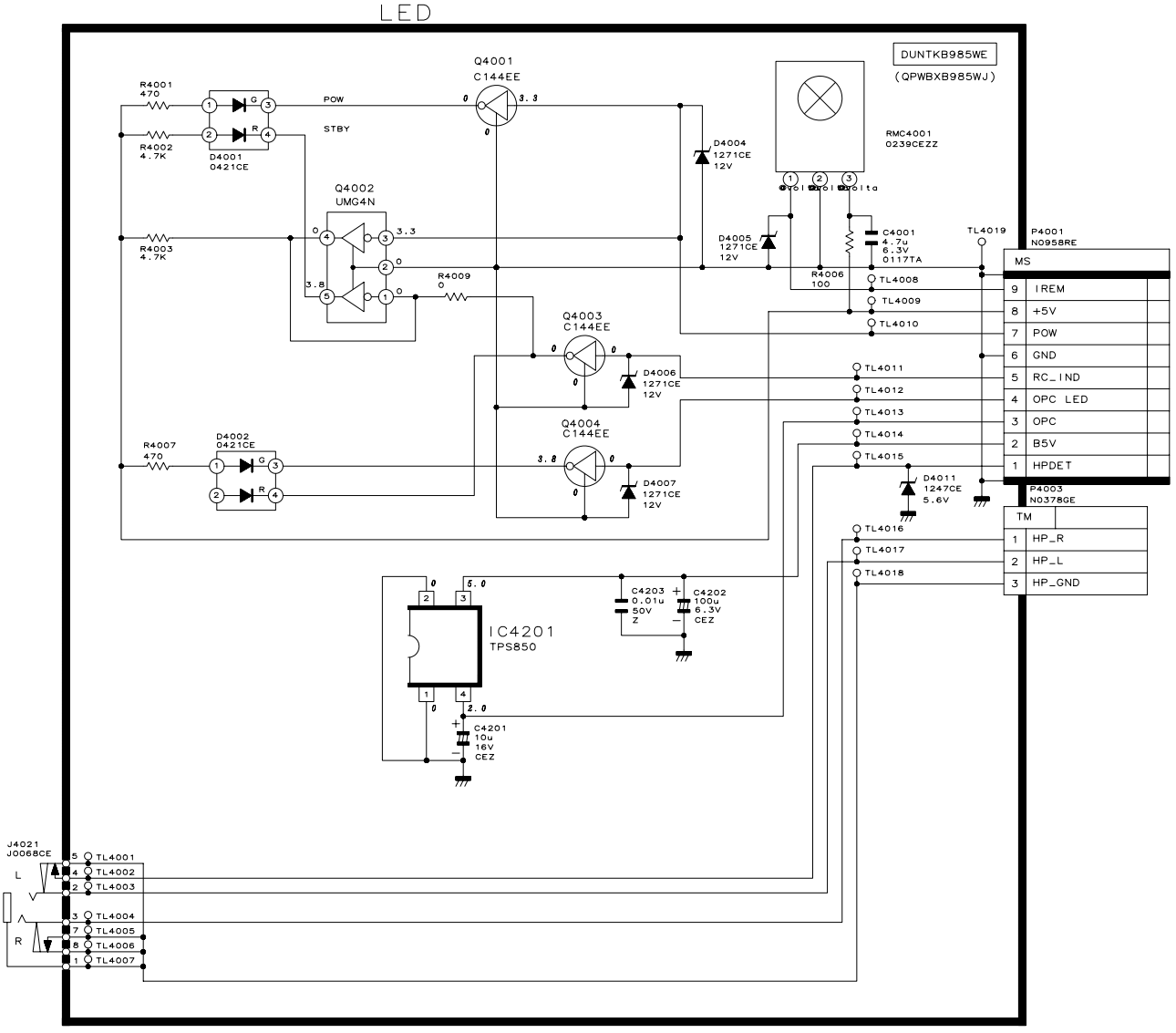
1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   (ML): Mylar (TA): Tantalum
   (PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SCHEMATIC DIAGRAM

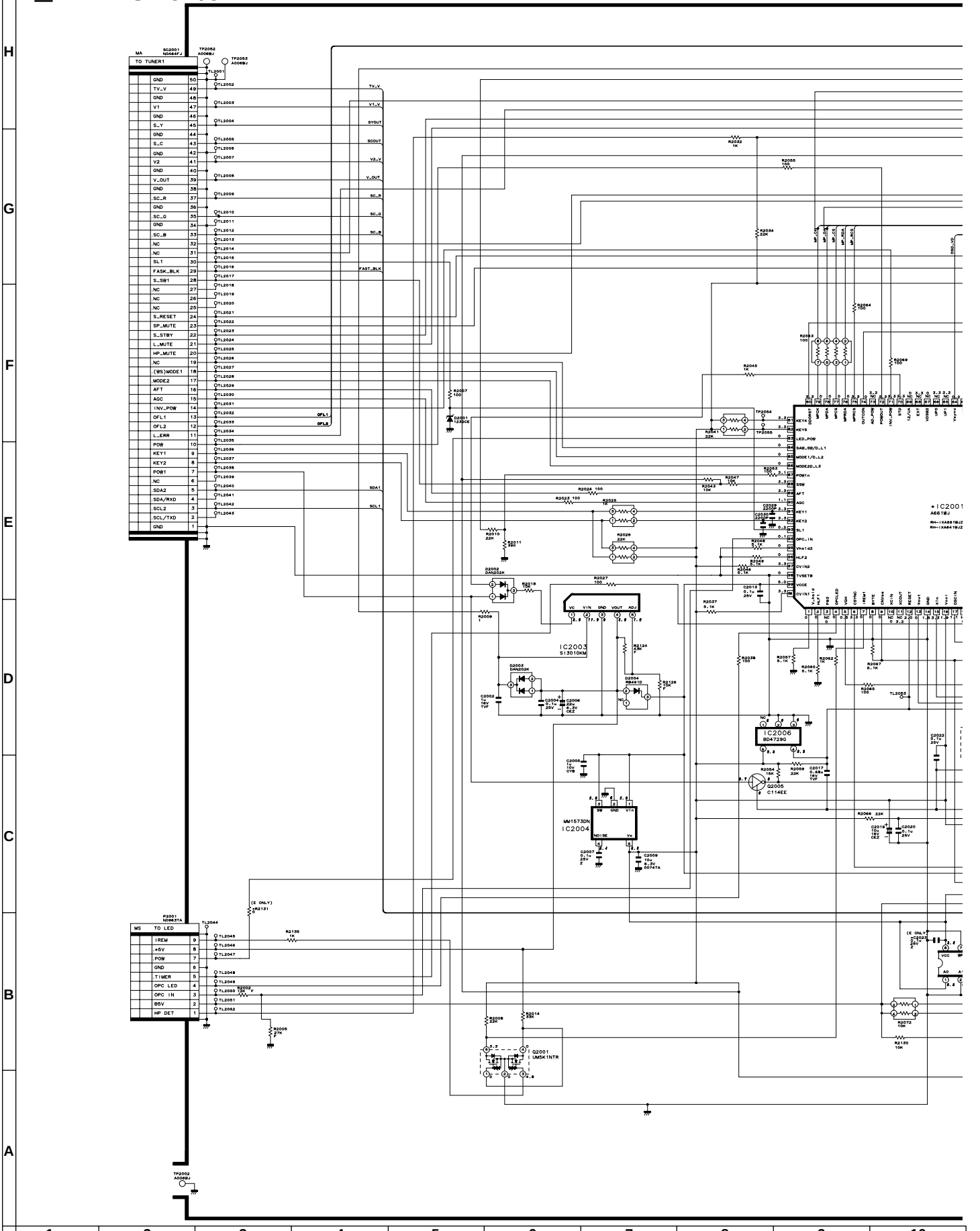
■ R/C, LED Unit



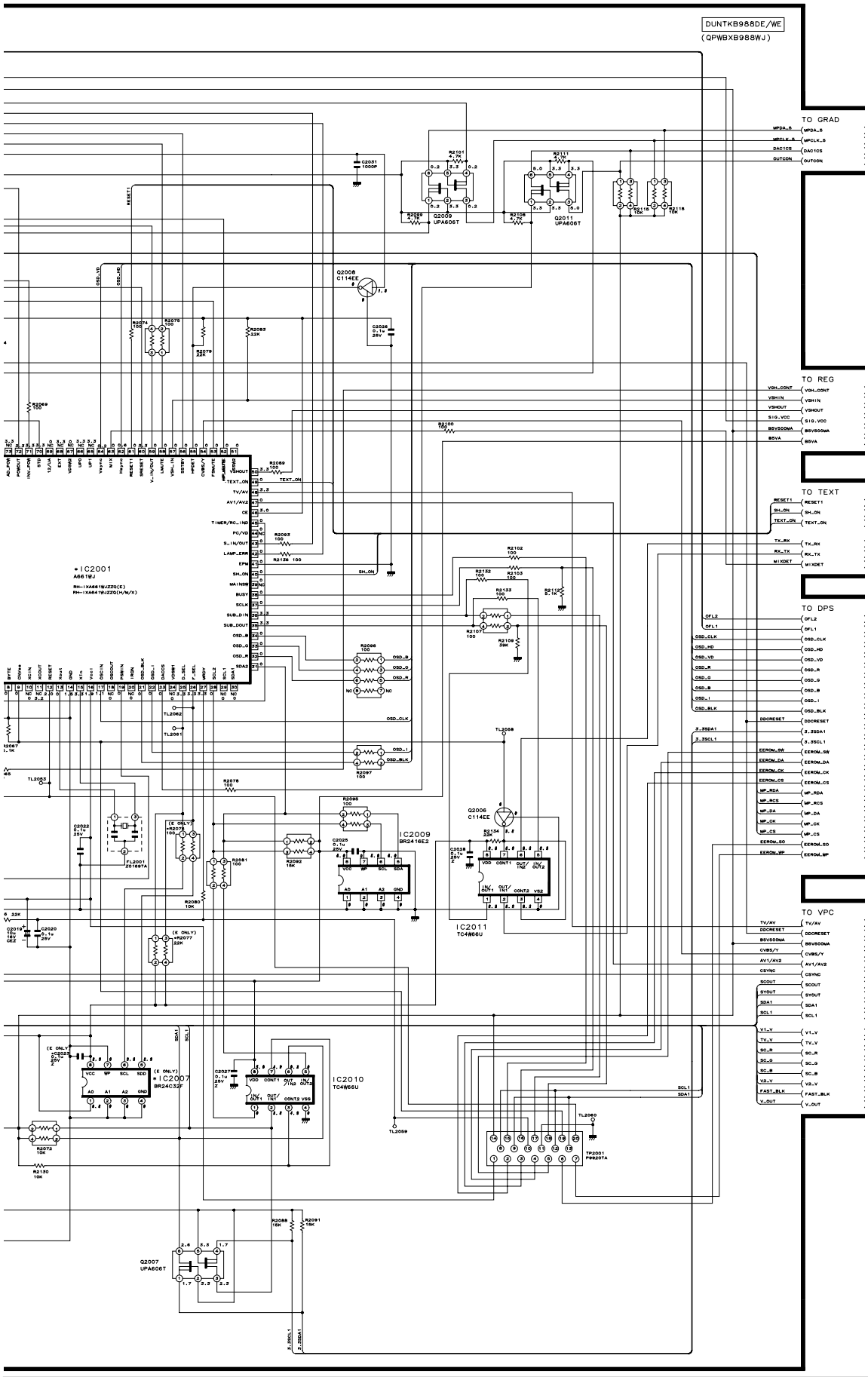
1	2	3	4	5	6

■ MAIN Unit-1/6

MAIN1 (MICON)



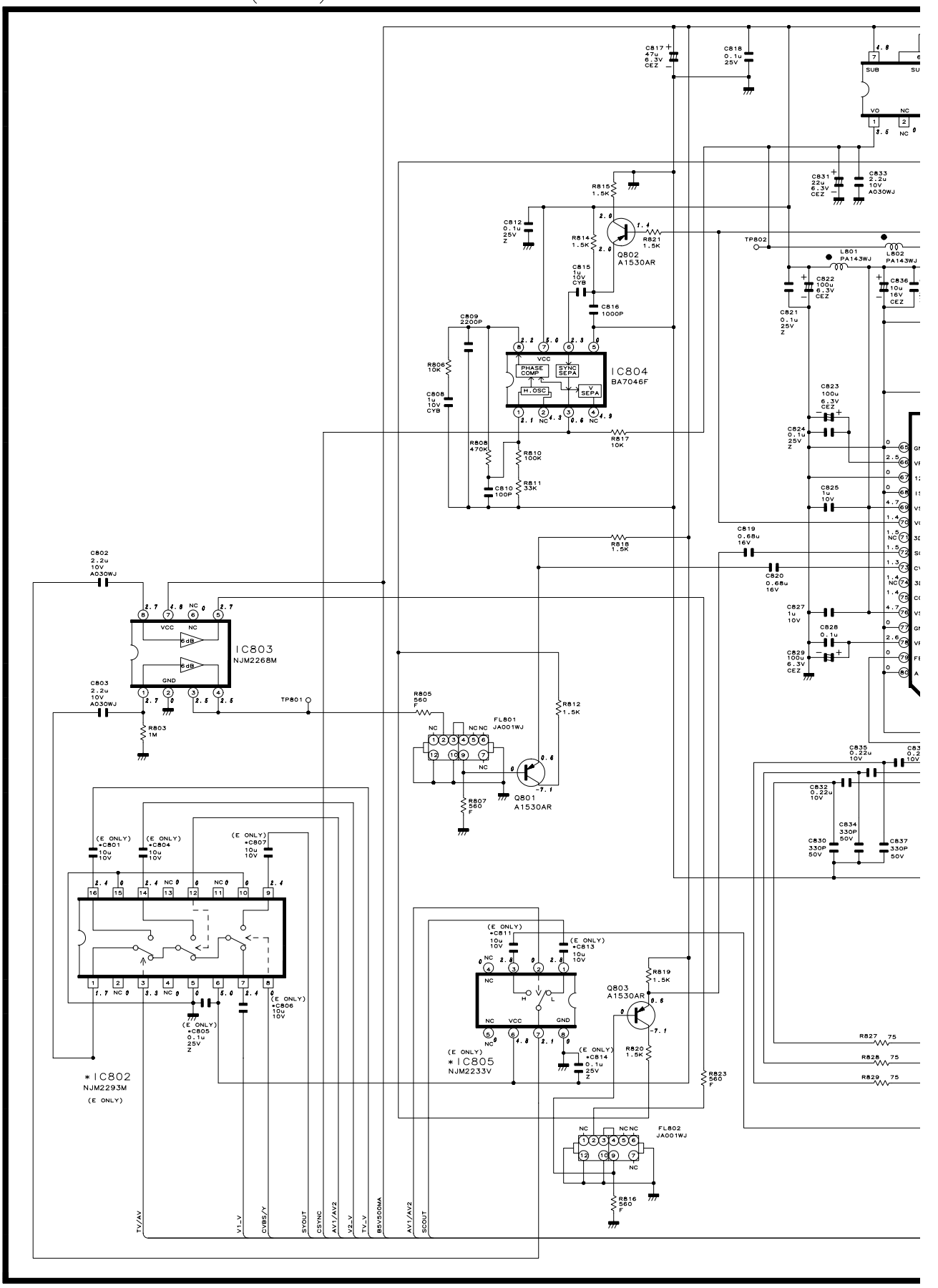
IN1 (MICON)

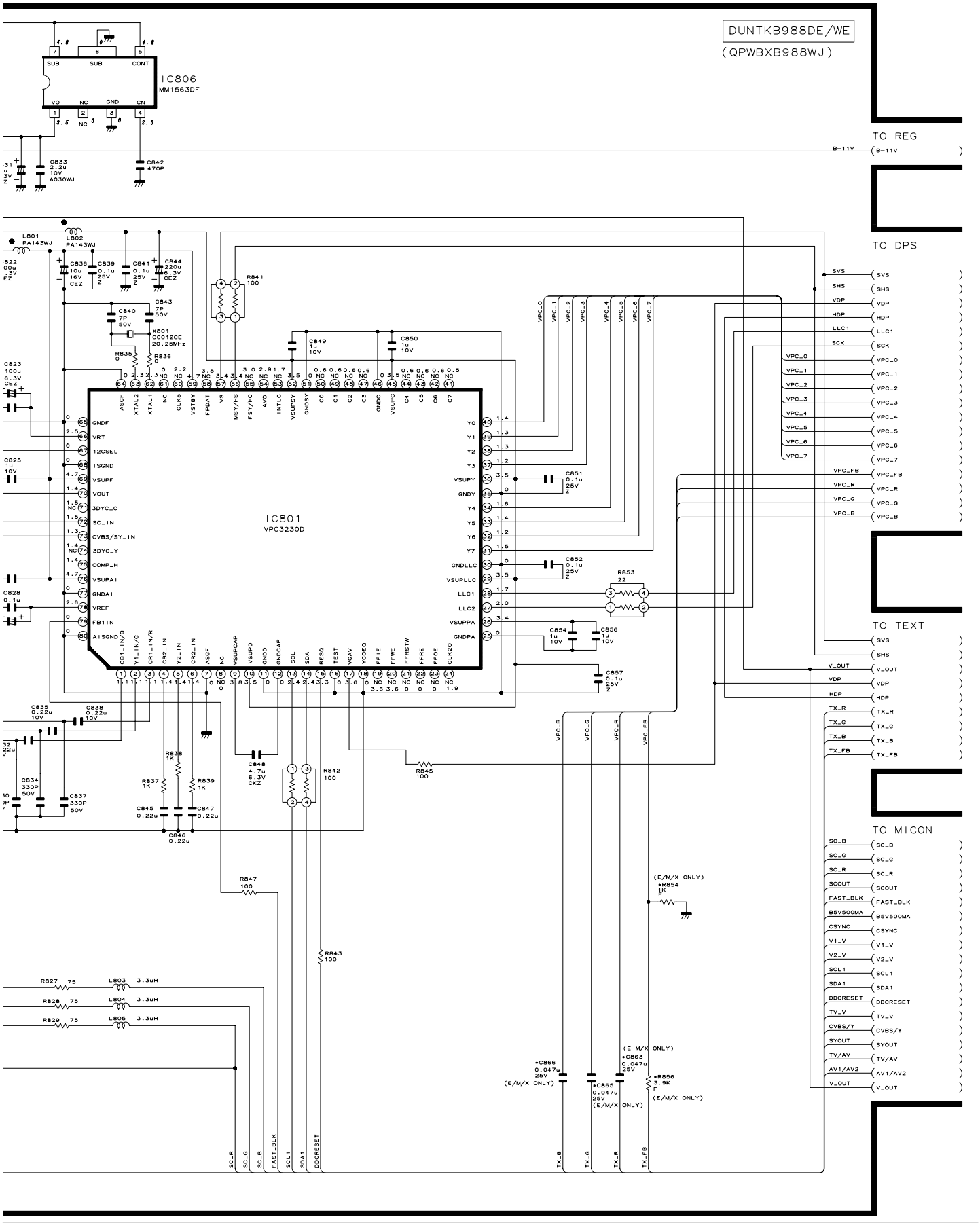


10	11	12	13	14	15	16	17	18	19

■ MAIN Unit-2/6

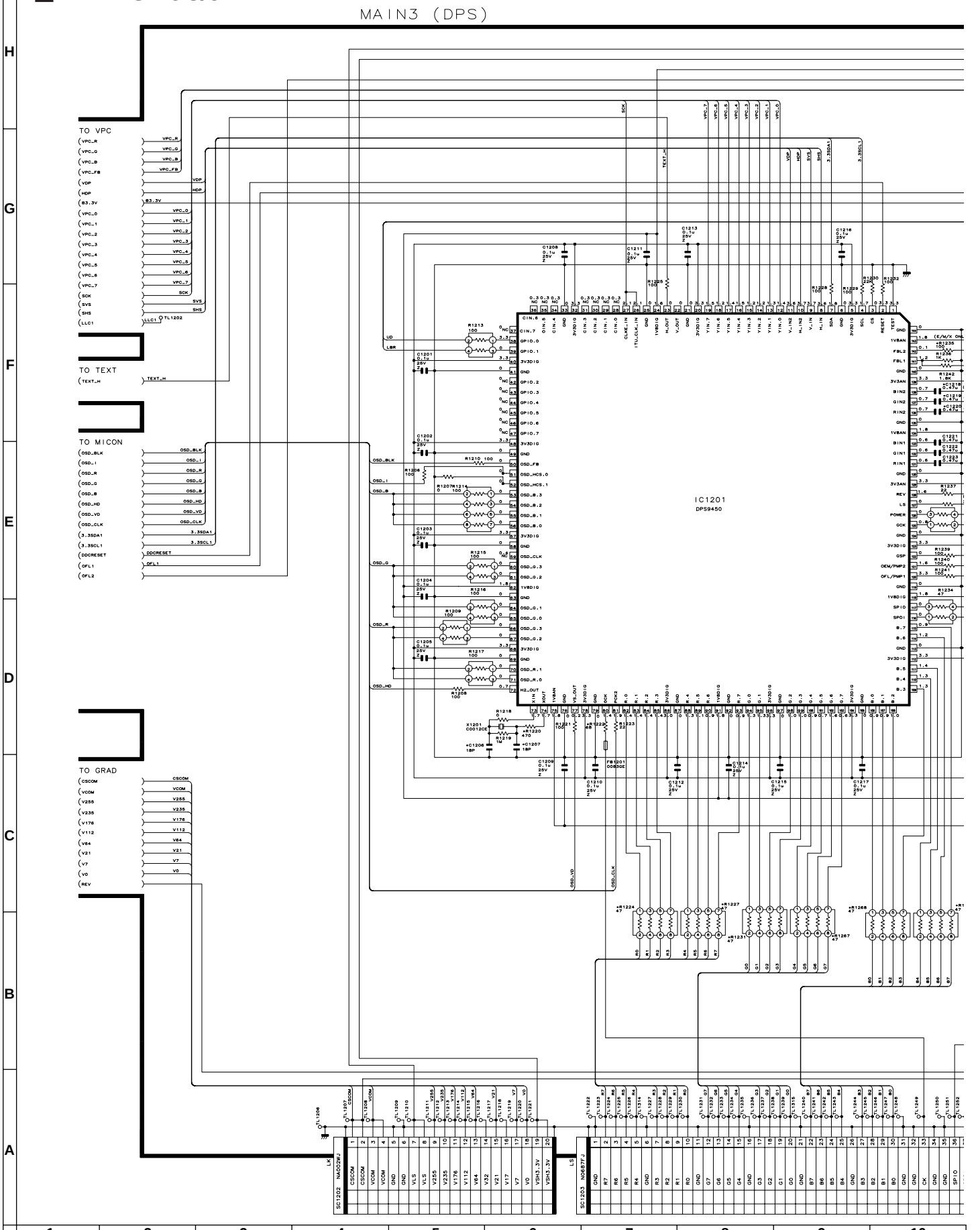
MAIN2 (VPC)

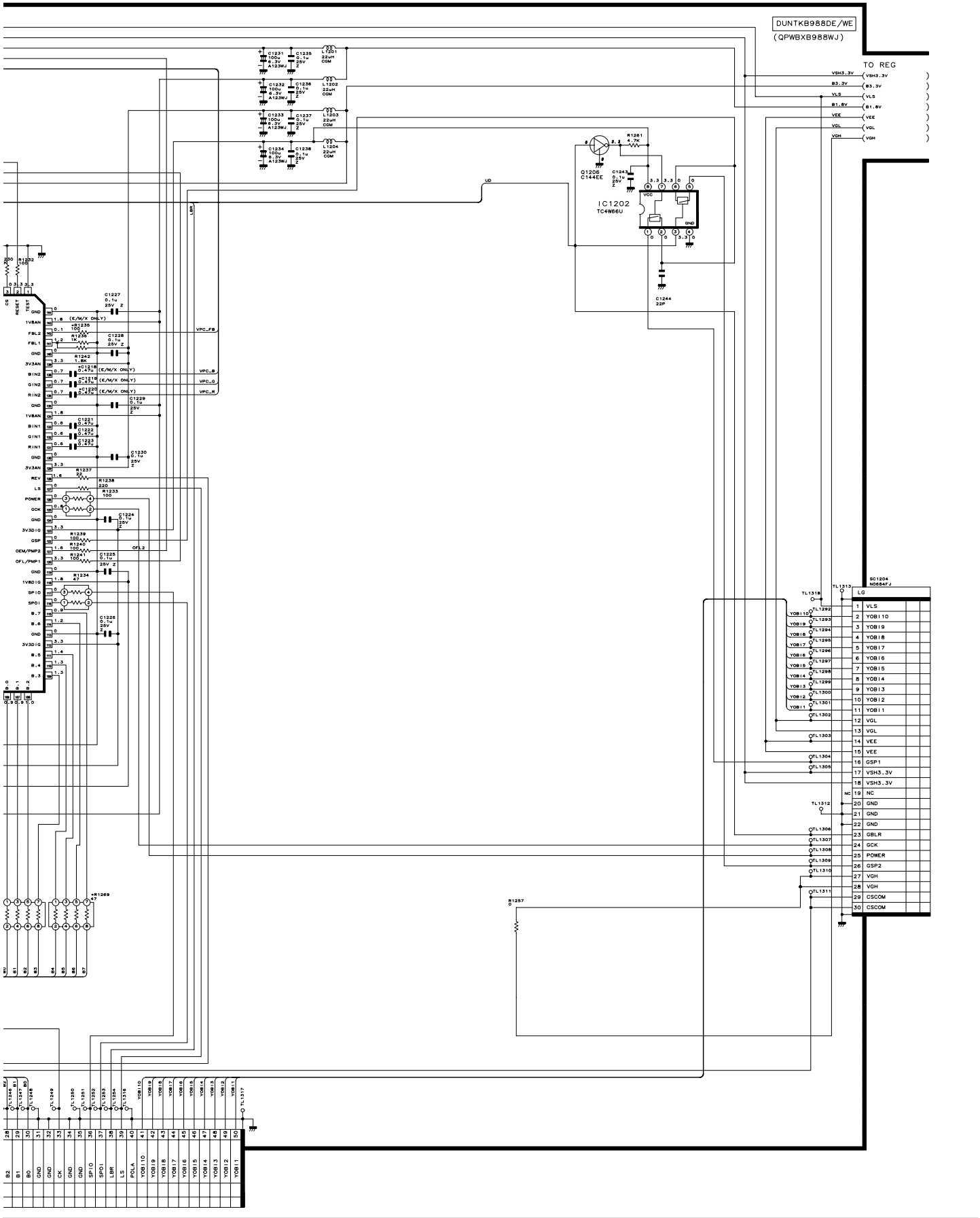




10	11	12	13	14	15	16	17	18	19

■ MAIN Unit-3/6

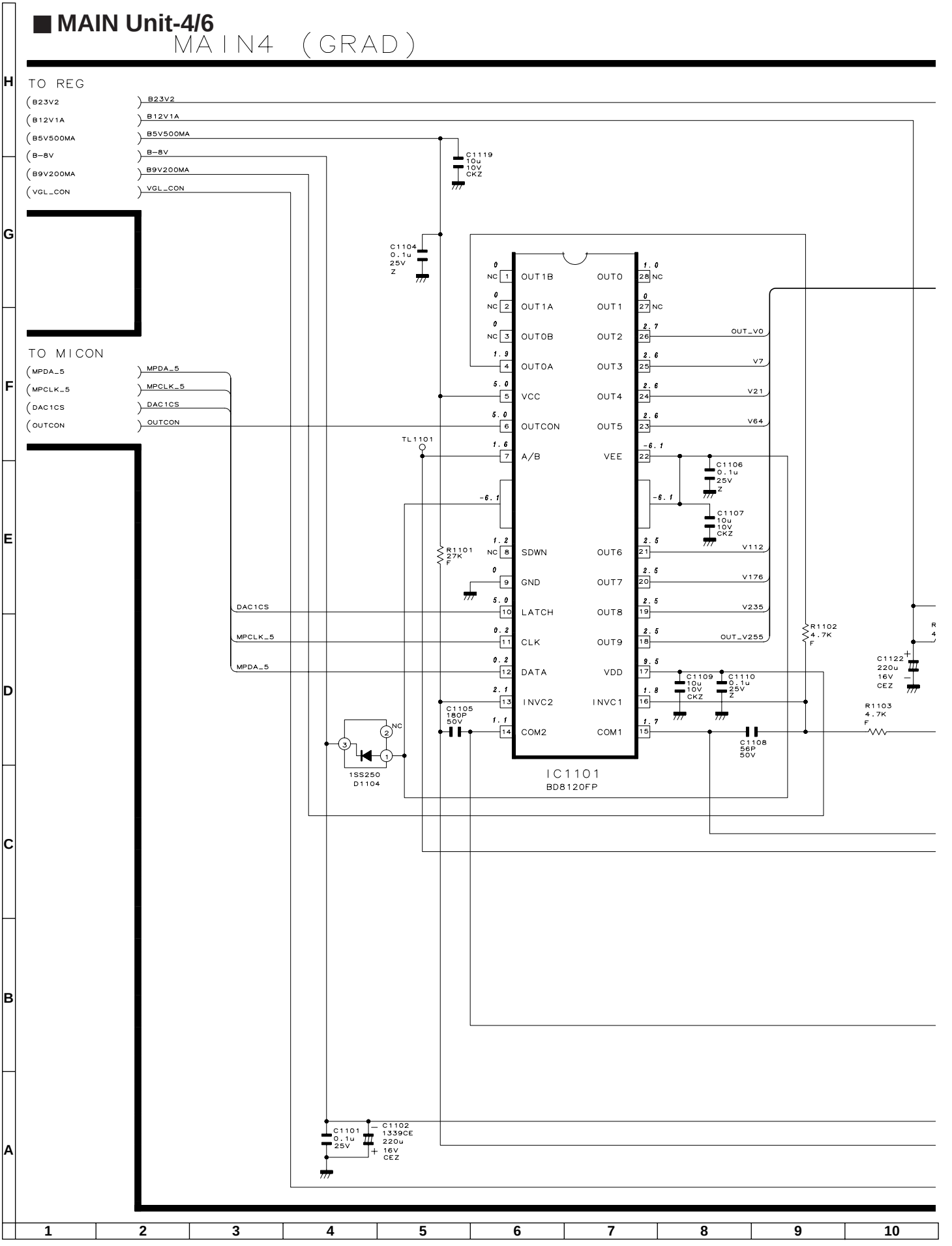

MAIN3 (DPS)
TO VPC
TO TEXT
TO MICON
TO GRAD
IC1201
DPS9450
X1201
SC1202
SC1203

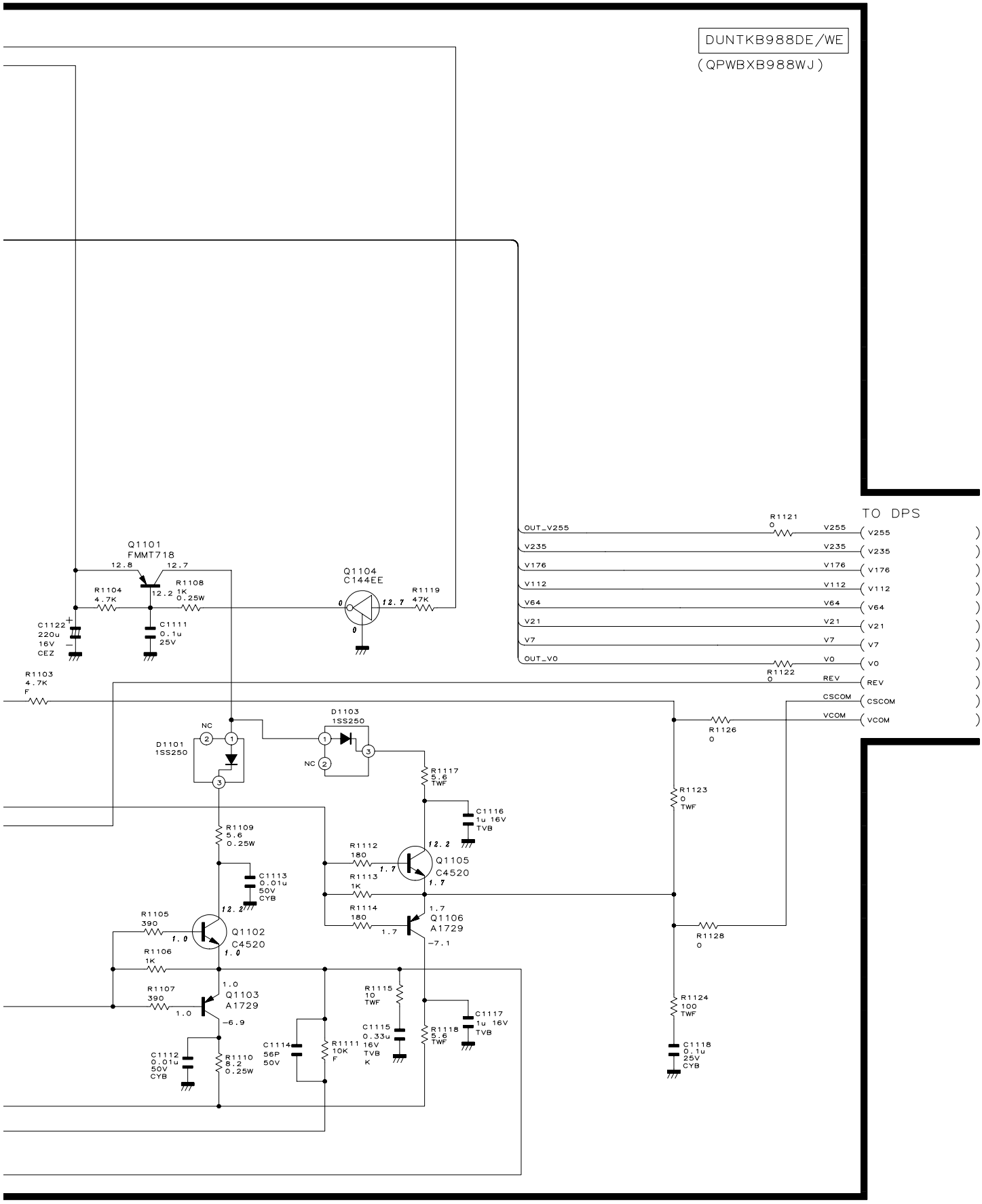


10	11	12	13	14	15	16	17	18	19

■ MAIN Unit-4/6

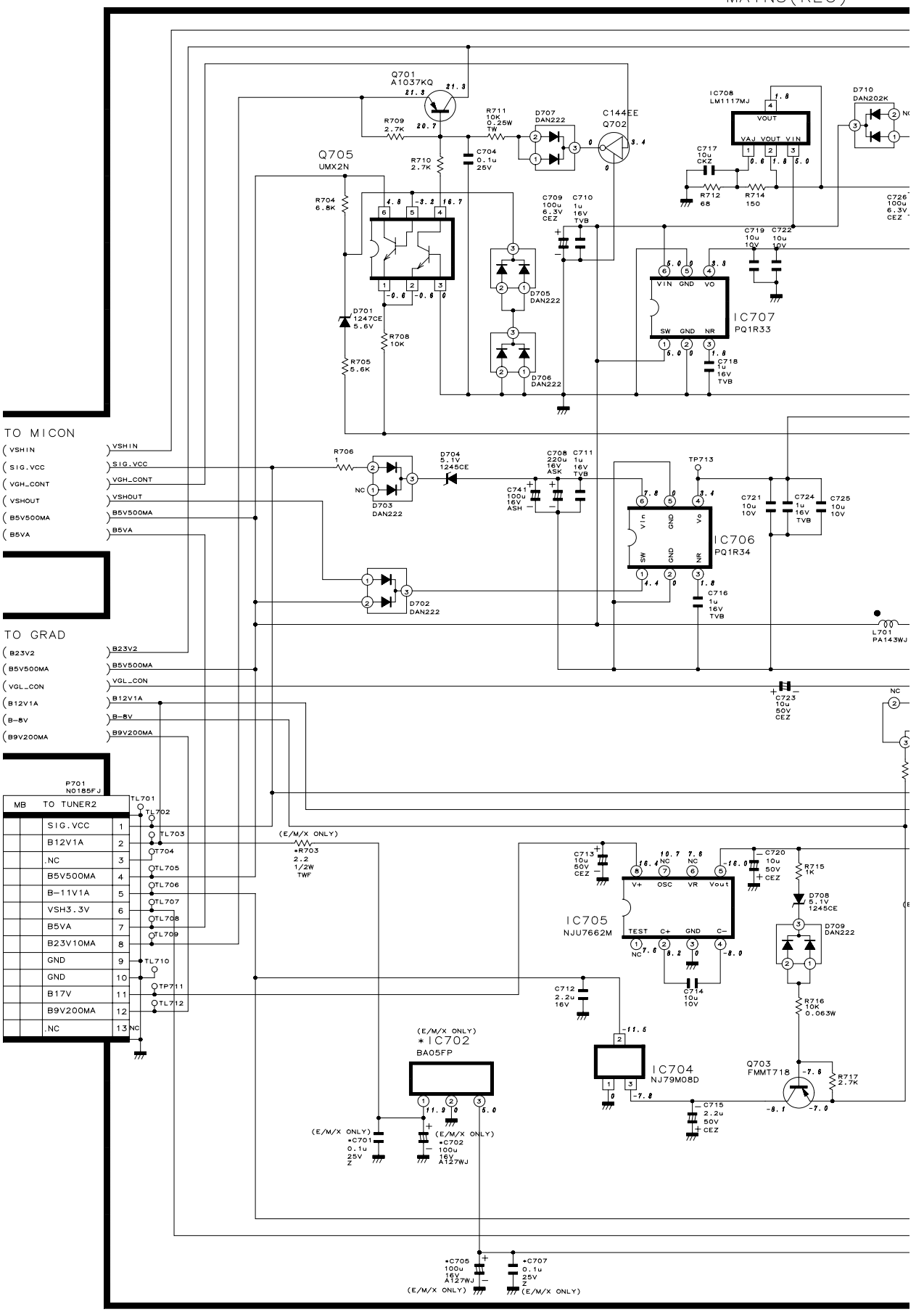
MAIN4 (GRAD)

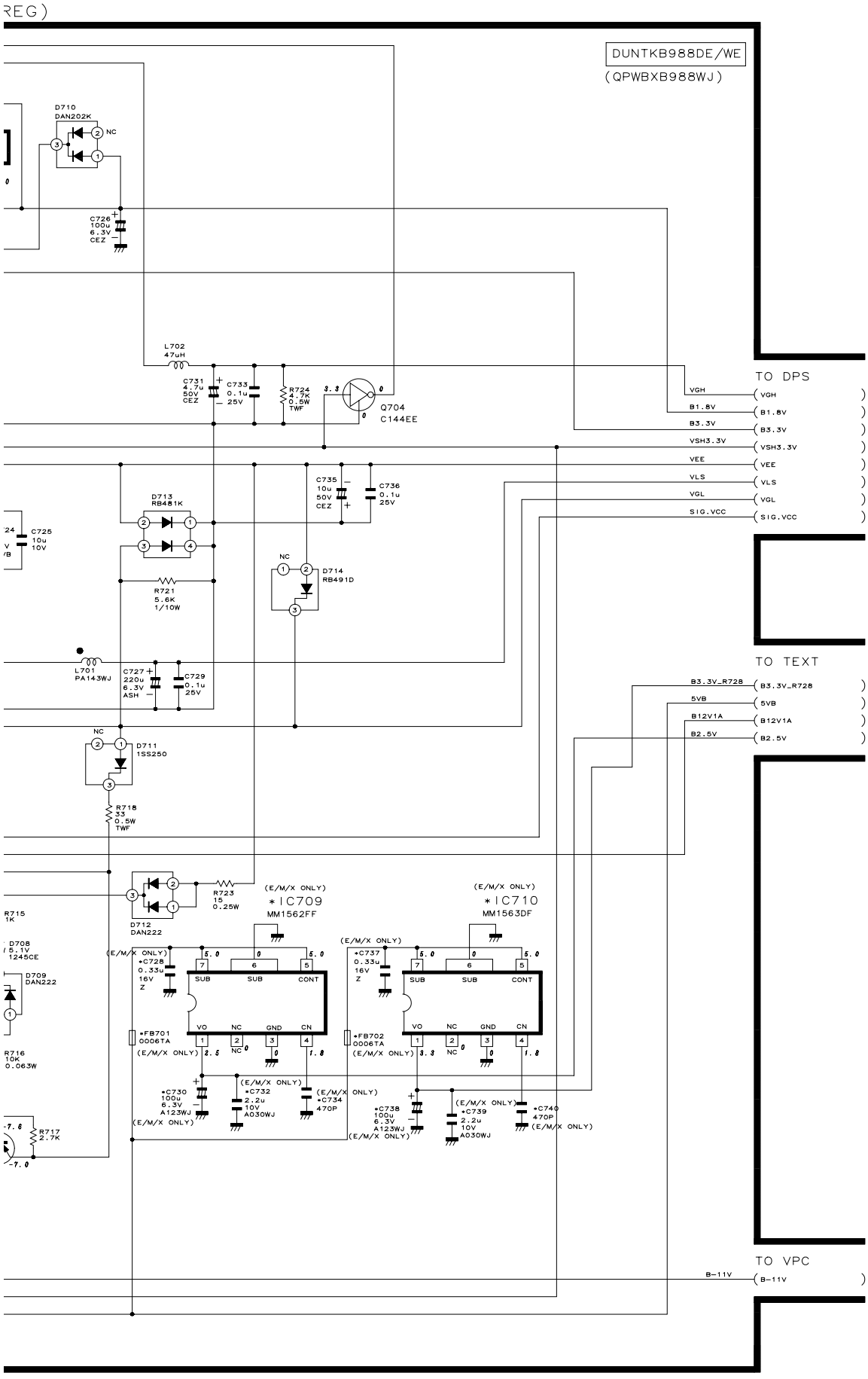




10	11	12	13	14	15	16	17	18	19

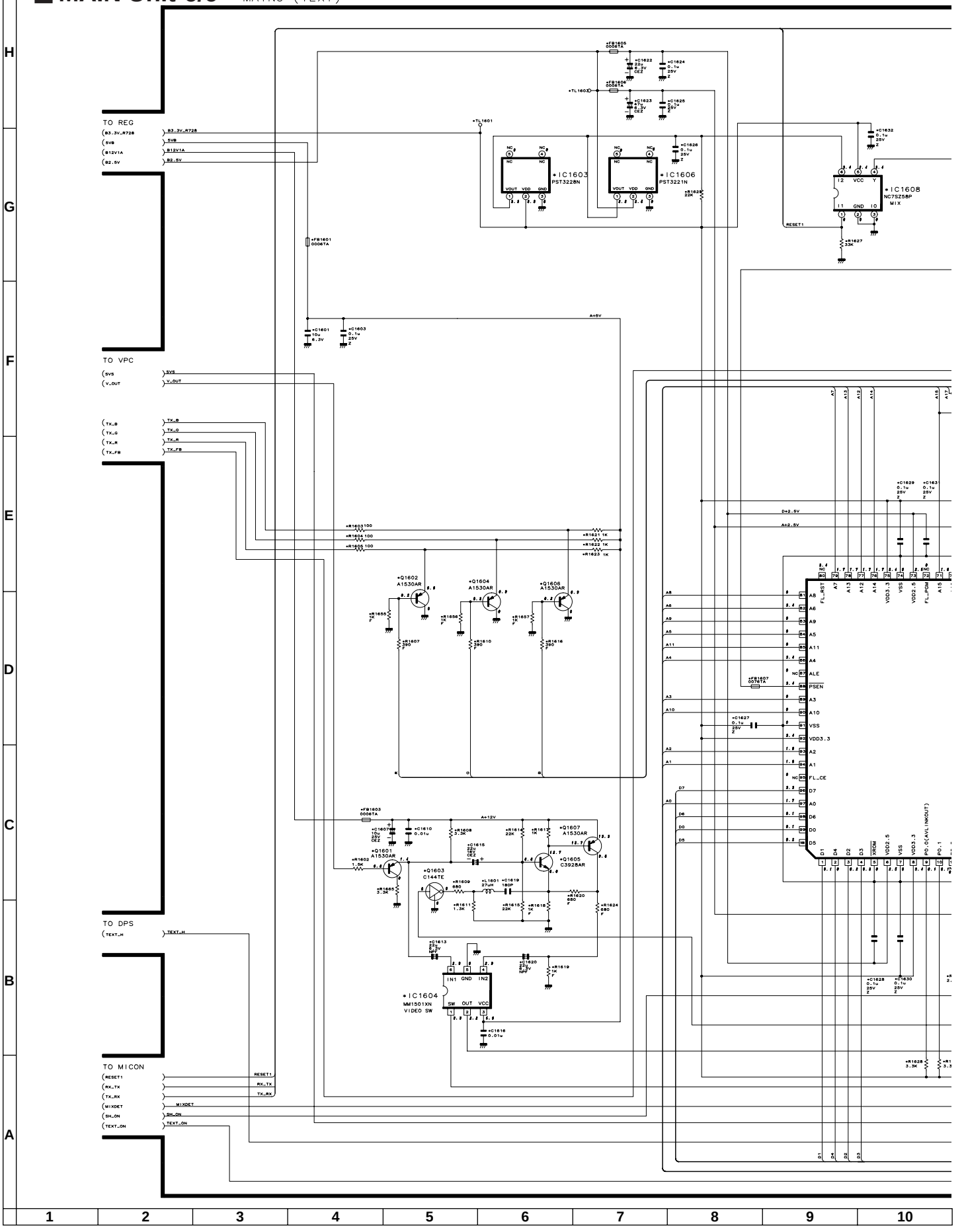
■ MAIN Unit-5/6

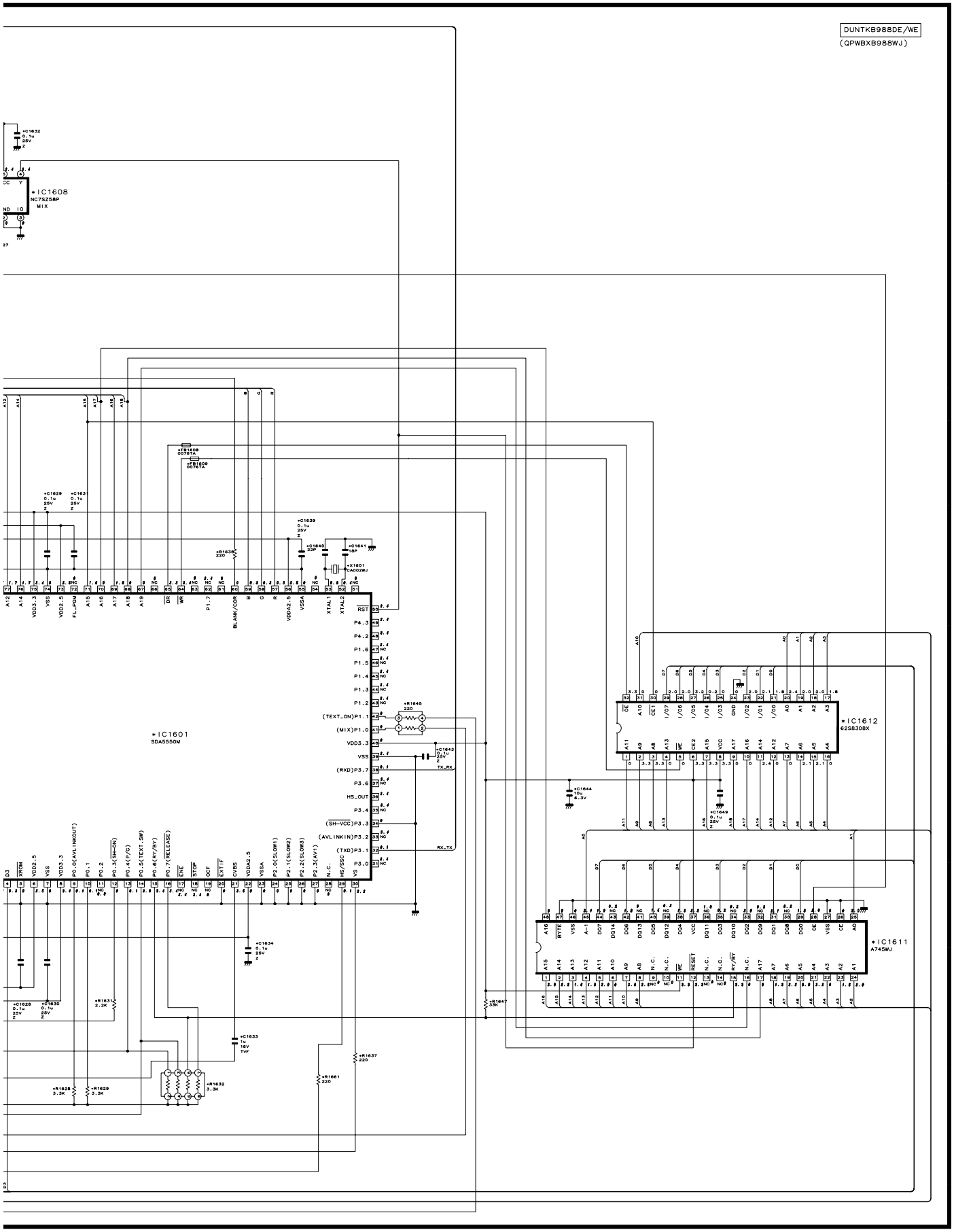

MAIN5(REG)
TO MICON
VSHIN
SIG.VCC
VGH_CONT
VSHOUT
B5V500MA
B5VA
TO GRAD
B23V2
B5V500MA
VGL_CON
B12V1A
B-8V
B9V200MA
P701
N0185FJ
MB TO TUNER2
SIG.VCC 1
B12V1A 2
.NC 3
B5V500MA 4
B-11V1A 5
VSH3.3V 6
B5VA 7
B23V10MA 8
GND 9
GND 10
B17V 11
B9V200MA 12
.NC 13
Q701 A1037KQ
Q702 C144EE
Q705 UMX2N
IC705 NJU7662M
IC706 PQ1R34
IC707 PQ1R33
IC704 NJ79M08D
*IC702 BA05FP
D701 1247CE 5.6V
D702 DAN222
D703 DAN222
D704 5.1V 1245CE
D705 DAN222
D706 DAN222
D707 DAN222
D708 5.1V 1245CE
D709 DAN222
D710 DAN202K
IC708 LM1117MJ
Q703 FMMT718
L701 PA143WJ
(E/M/X ONLY)


REG)
DUNTKB988DE/WE
(QPWBXB988WJ)
D710
DAN202K
NC
C726
100u
6.3V
CEZ
L702
47uH
C731
4.7u
50V
CEZ
C733
0.1u
25V
R724
4.7K
0.5W
TWF
Q704
C144EE
TO DPS
VGH
B1.8V
B3.3V
VSH3.3V
VEE
VLS
VGL
SIG.VCC
C735
10u
50V
CEZ
C736
0.1u
25V
D713
RB481K
C725
10u
10V
R721
5.6K
1/10W
D714
RB491D
L701
PA143WJ
C727
220u
6.3V
ASH
C729
0.1u
25V
TO TEXT
B3.3V_R728
5VB
B12V1A
B2.5V
D711
1SS250
R718
33
0.5W
TWF
D712
DAN222
R723
15
0.25W
(E/M/X ONLY)
*IC709
MM1562FF
(E/M/X ONLY)
*IC710
MM1563DF
R715
1K
D708
5.1V
1245CE
D709
DAN222
R716
10K
0.063W
R717
2.7K
*C728
0.33u
16V
Z
*FB701
0006TA
*C730
100u
6.3V
A123WJ
*C732
2.2u
10V
A030WJ
*C734
470P
*C737
0.33u
16V
Z
*FB702
0006TA
*C738
100u
6.3V
A123WJ
*C739
2.2u
10V
A030WJ
*C740
470P
SUB
CONT
VO
NC
GND
CN
TO VPC
B-11V

■ MAIN Unit-6/6

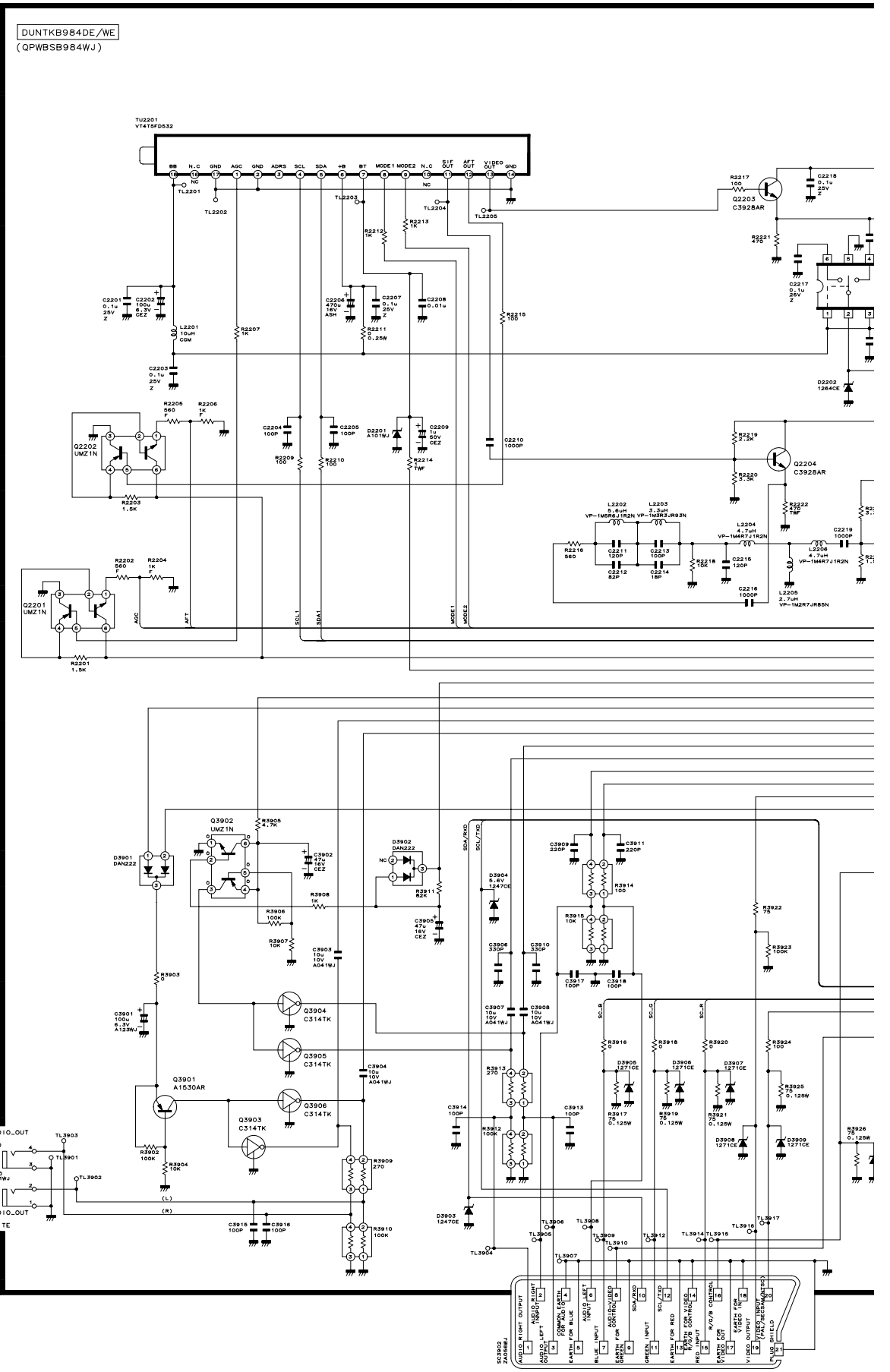
MAIN6 (TEXT)

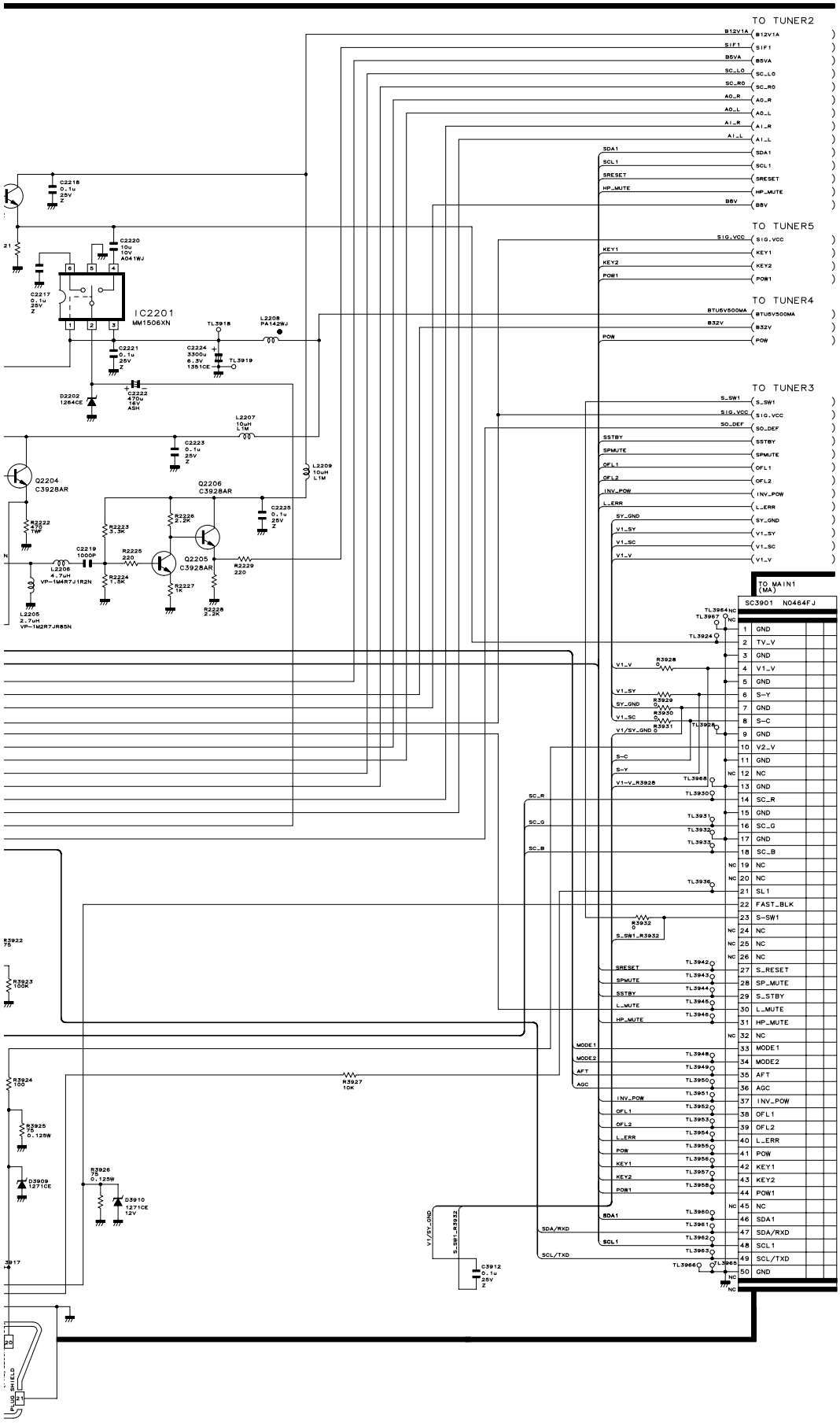




10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-1/5

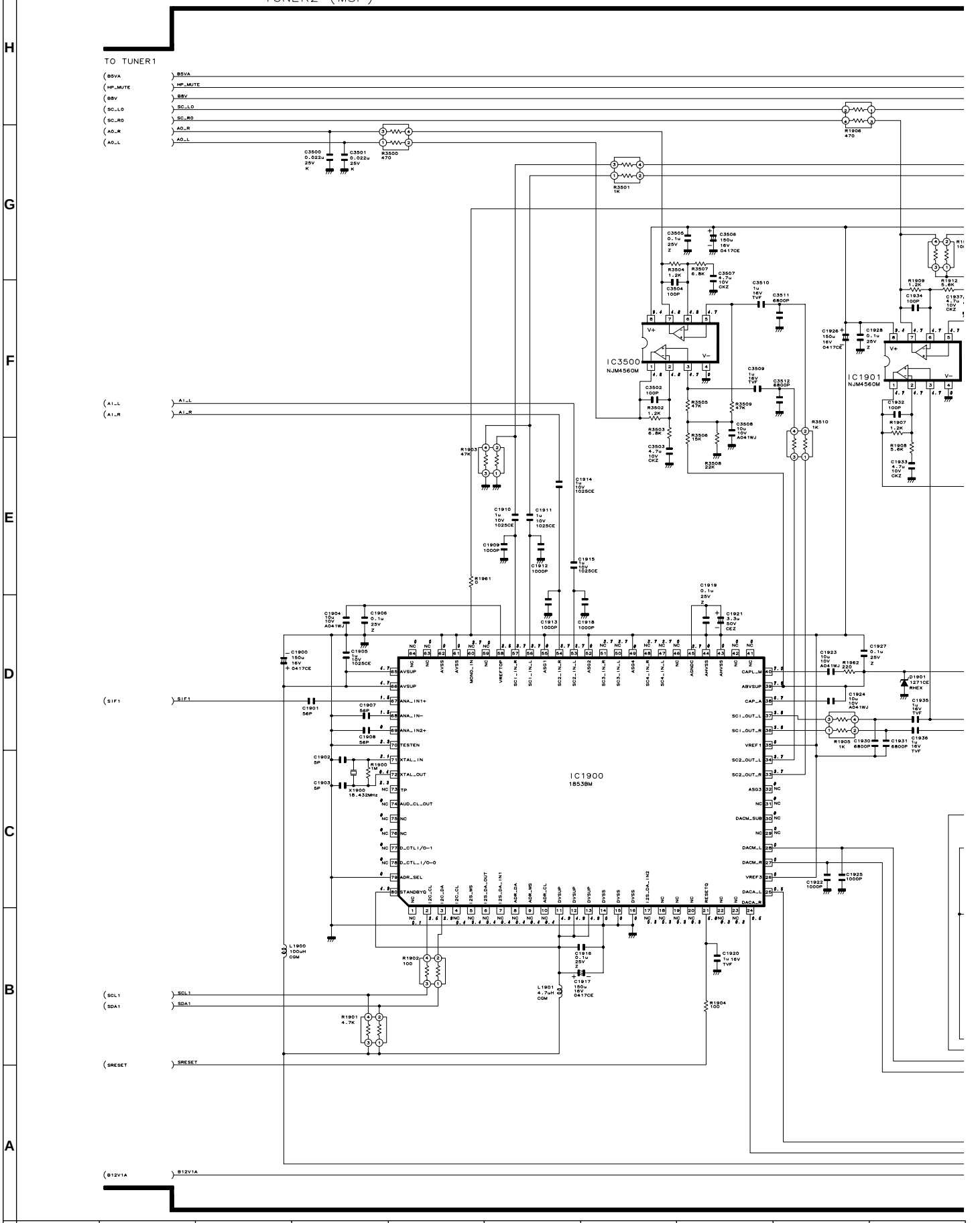


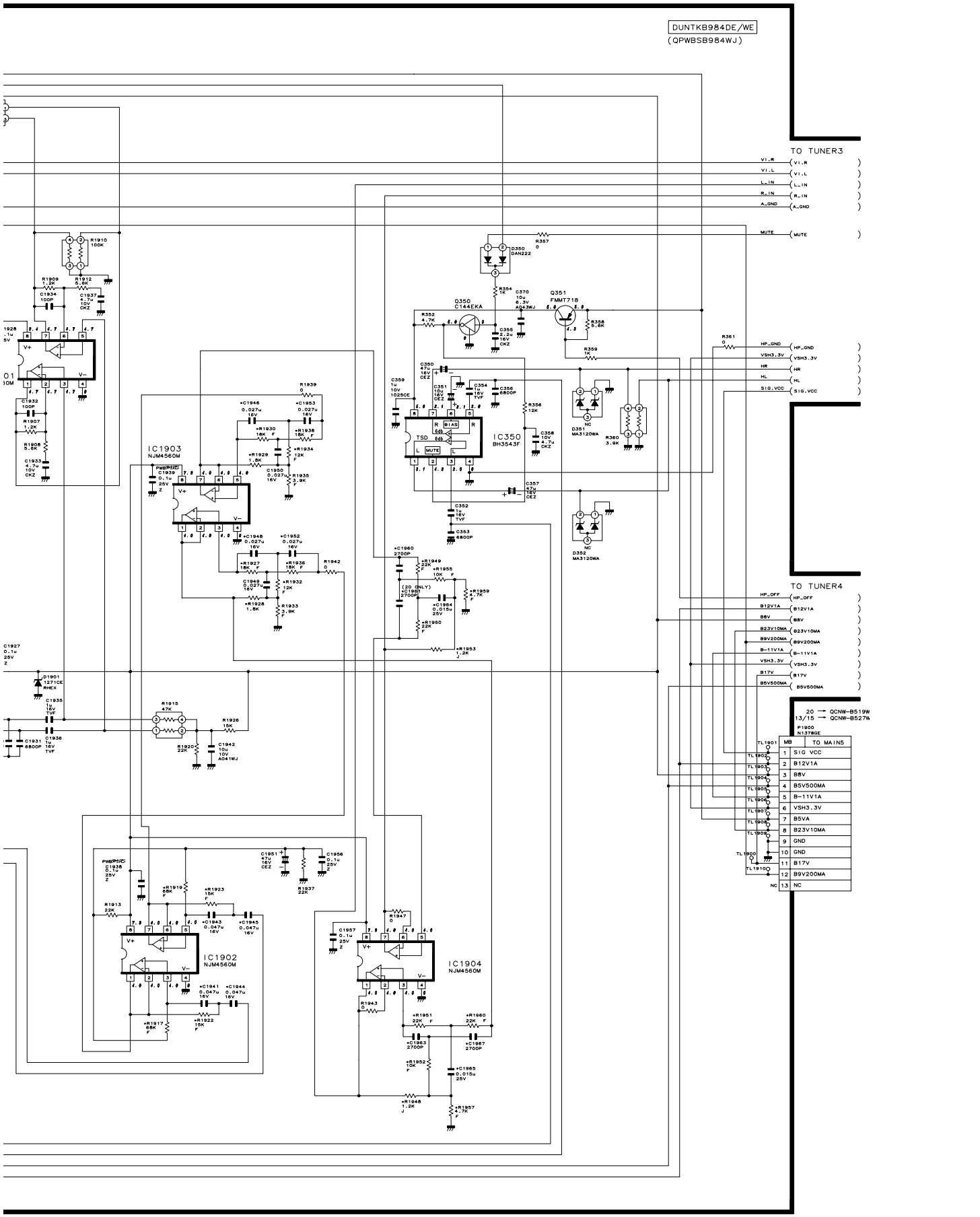


10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-2/5

TUNER2 (MSP)

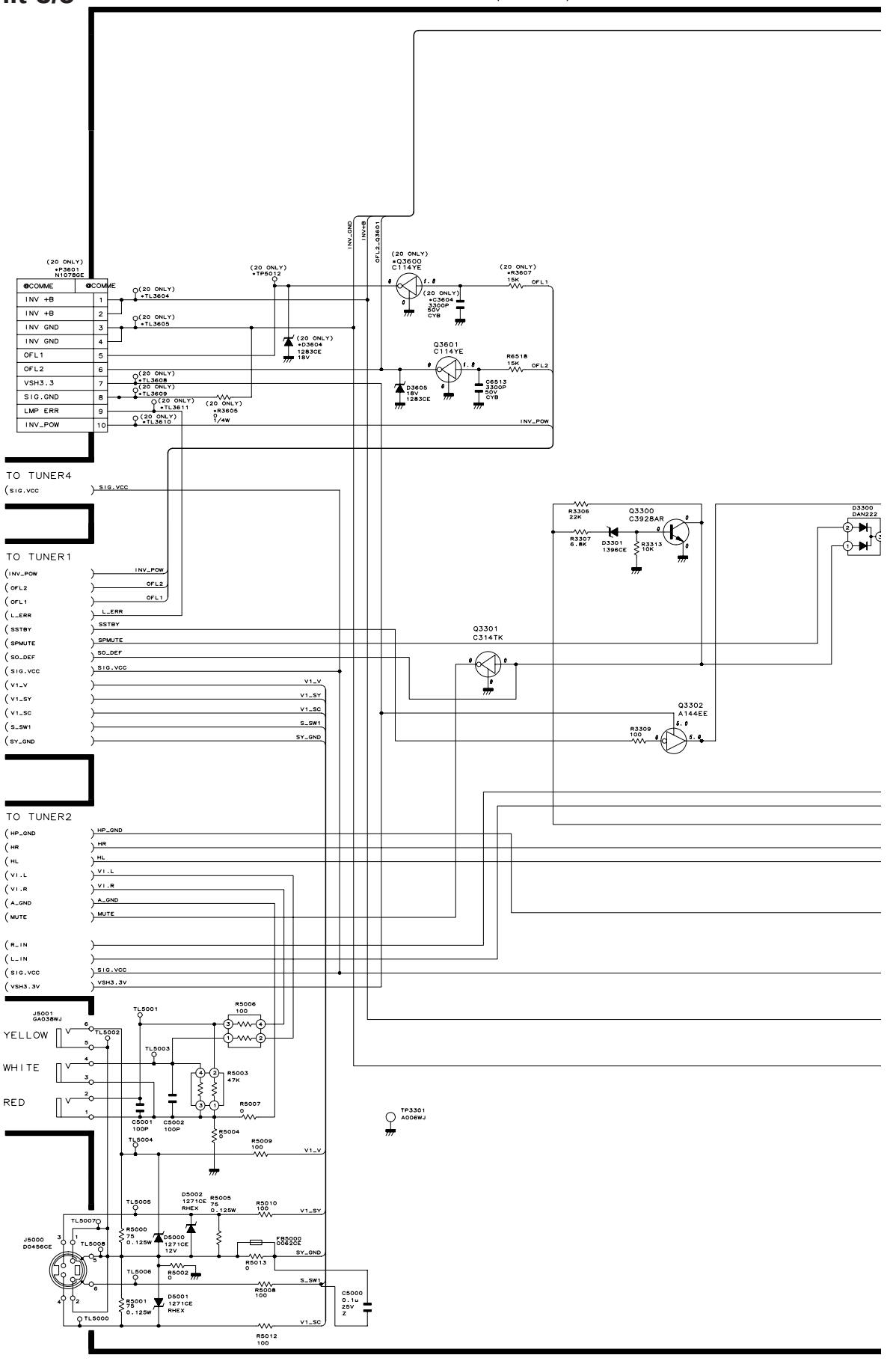


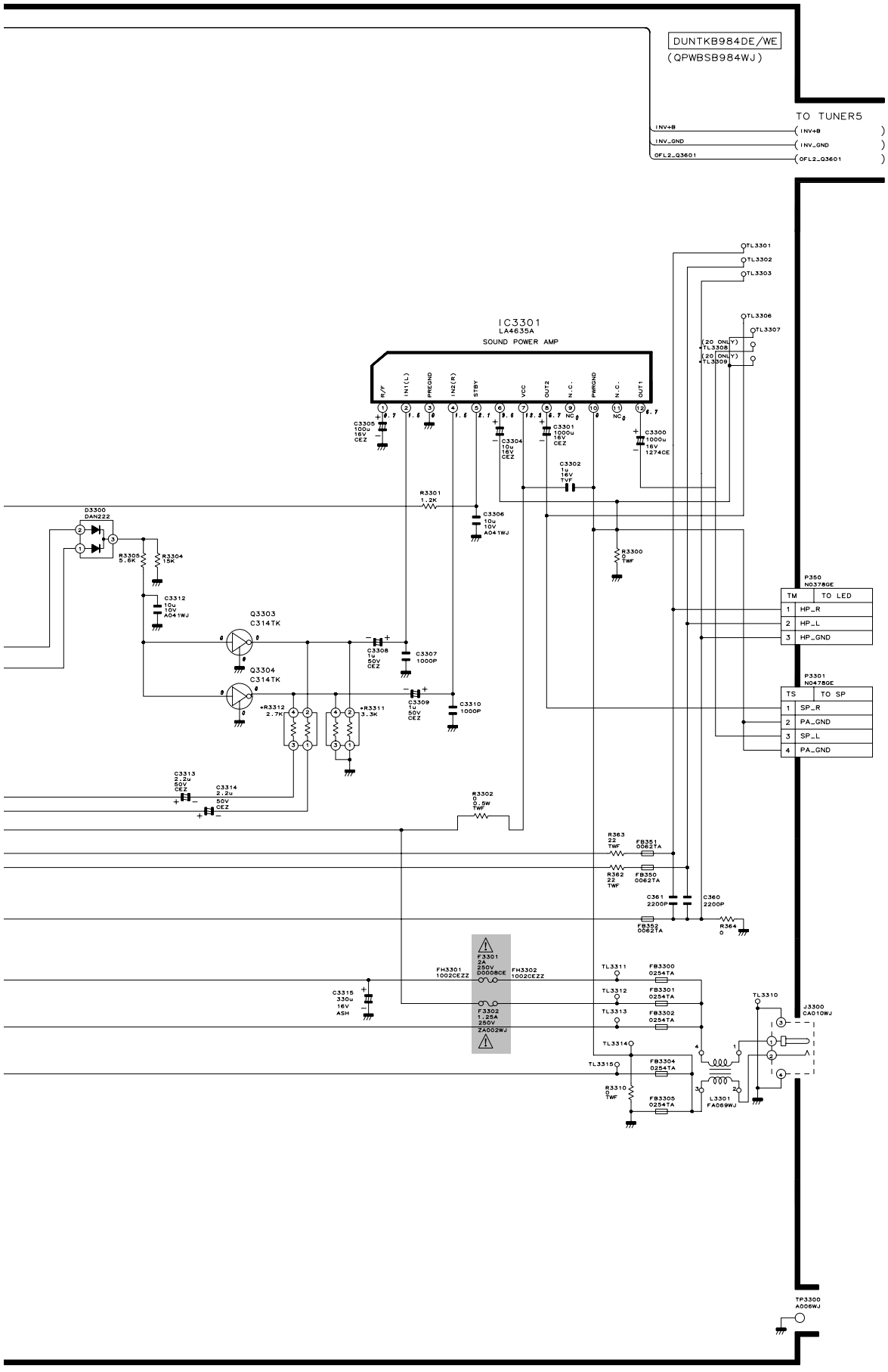


10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-3/5

TUNER3 (SP AMP)

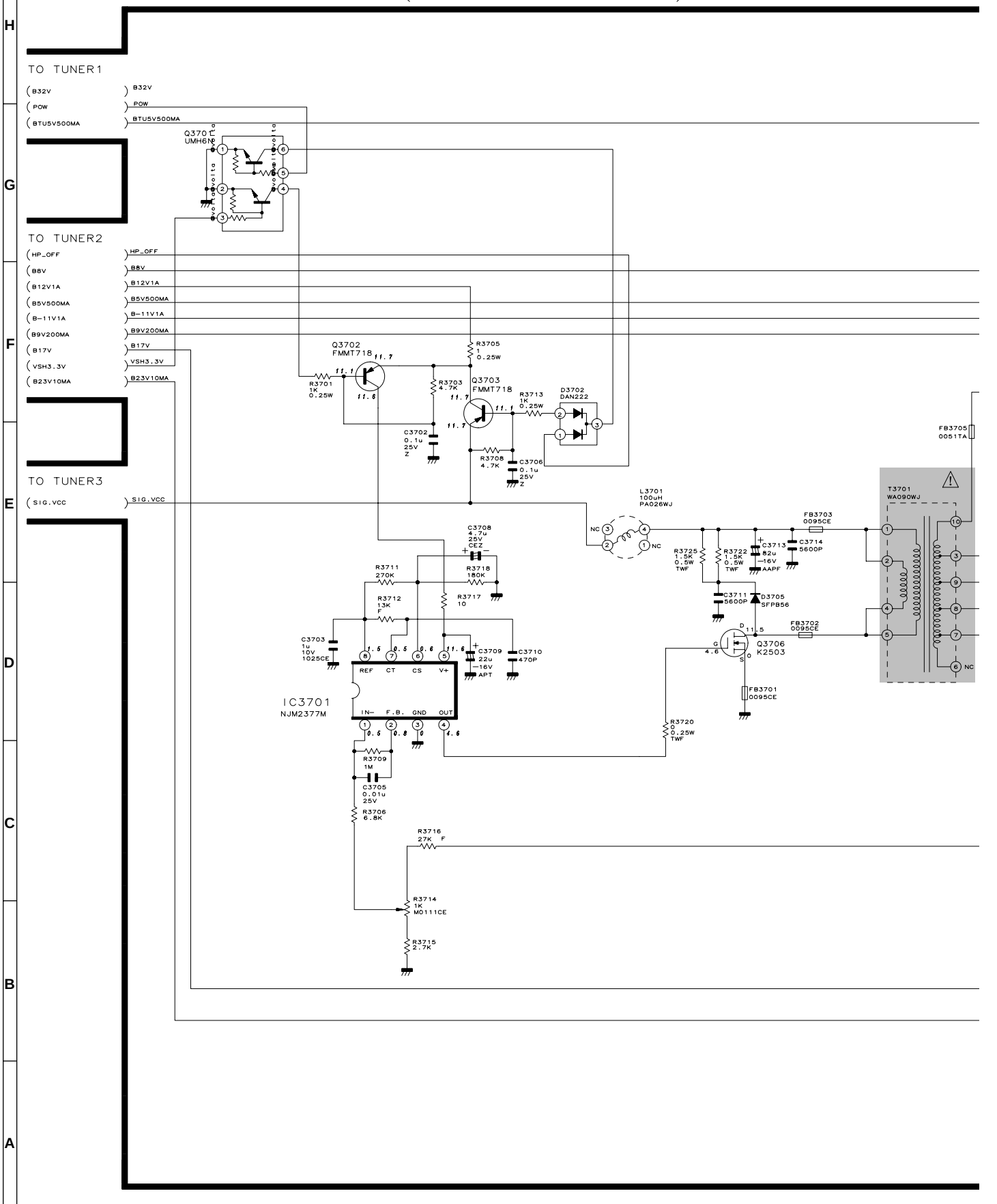




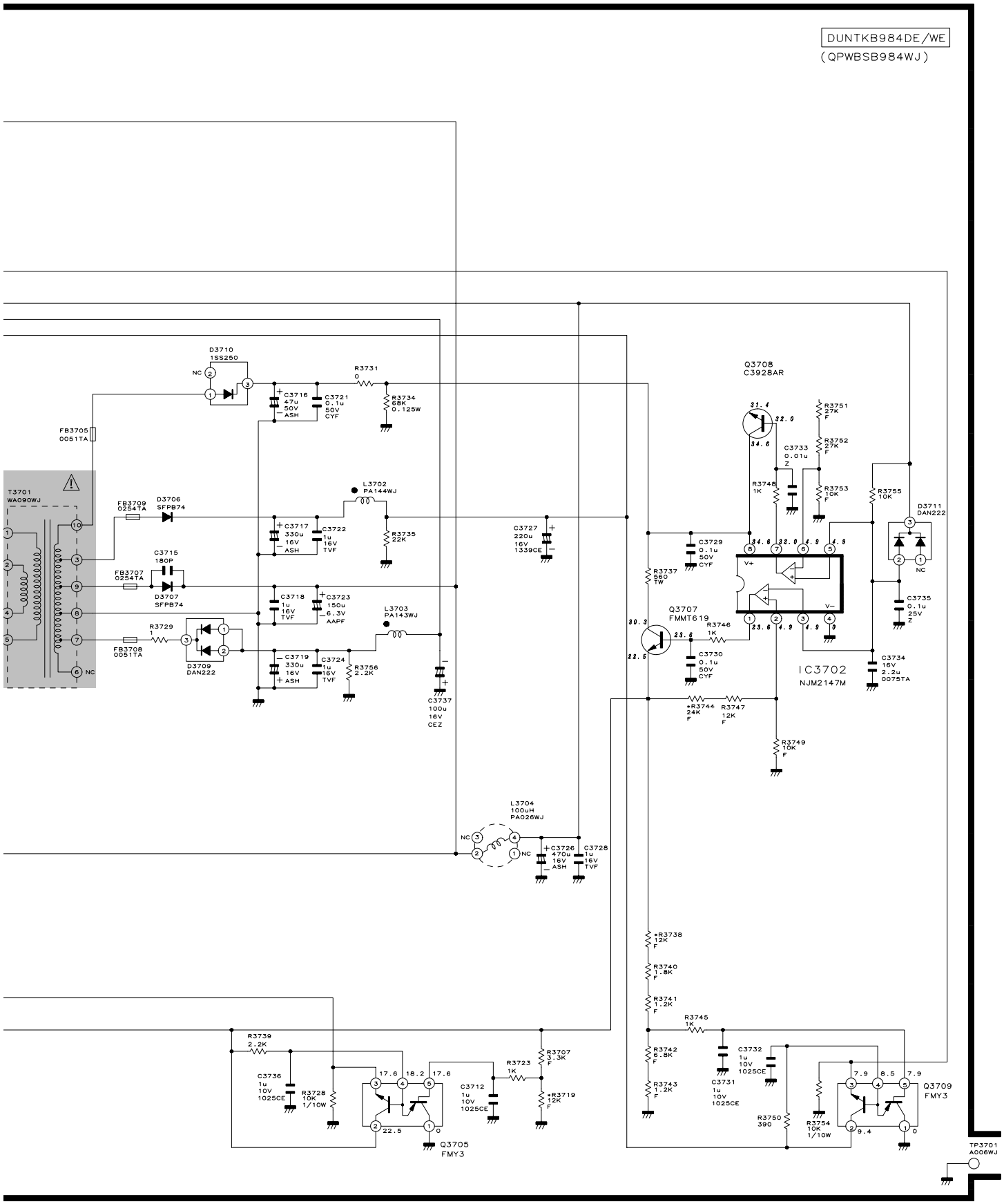
10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-4/5

TUNER4 (DCDC CONVERTER)



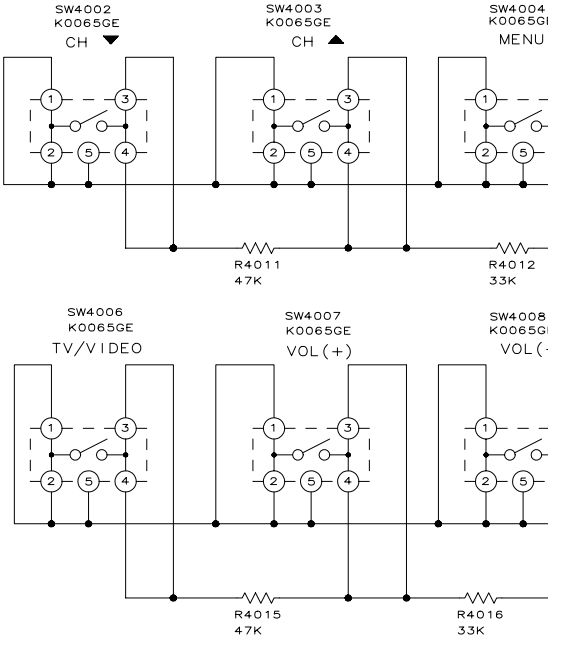
DUNTKB984DE/WE
(QPWBSB984WJ)

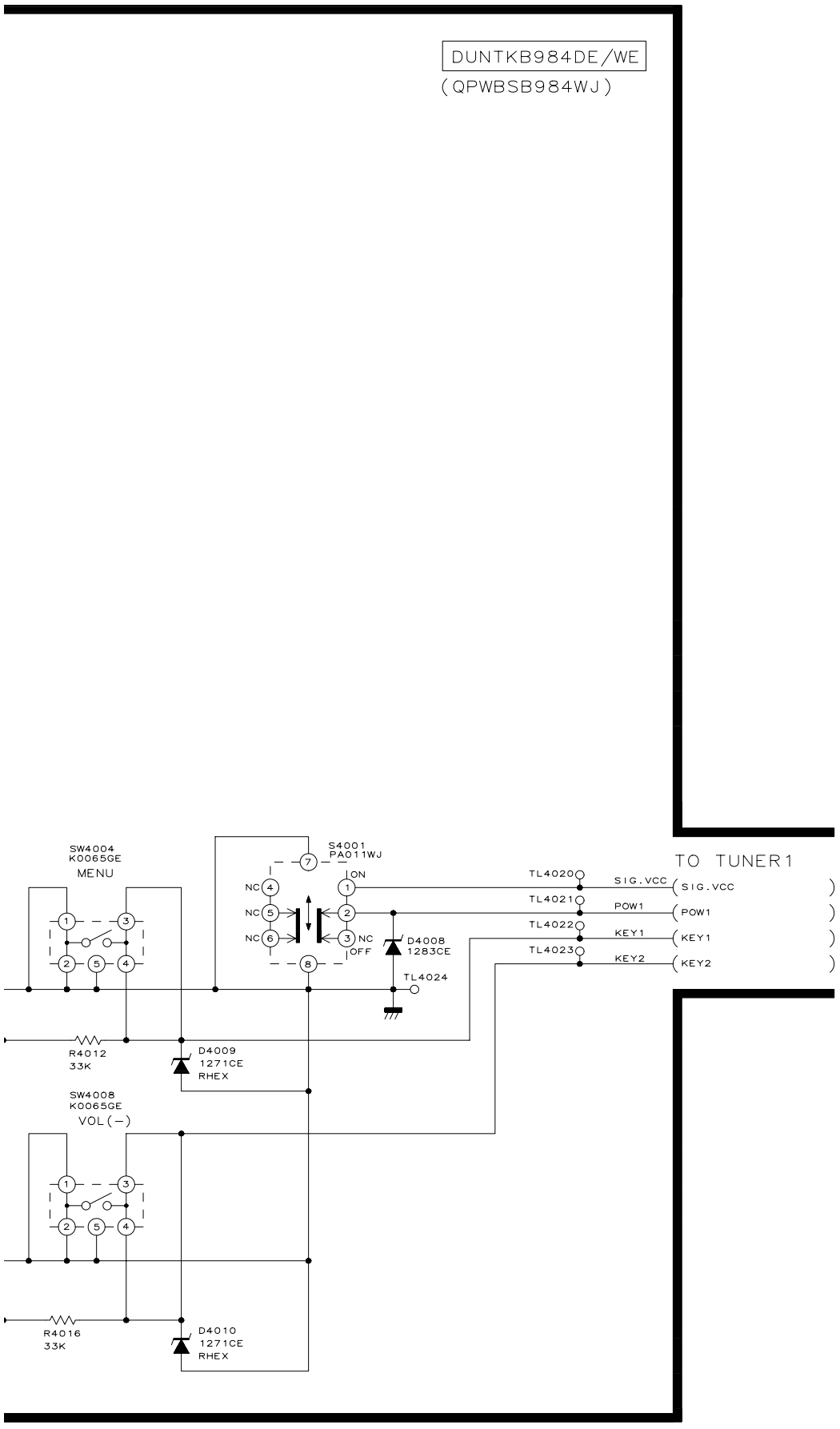


10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-5/5

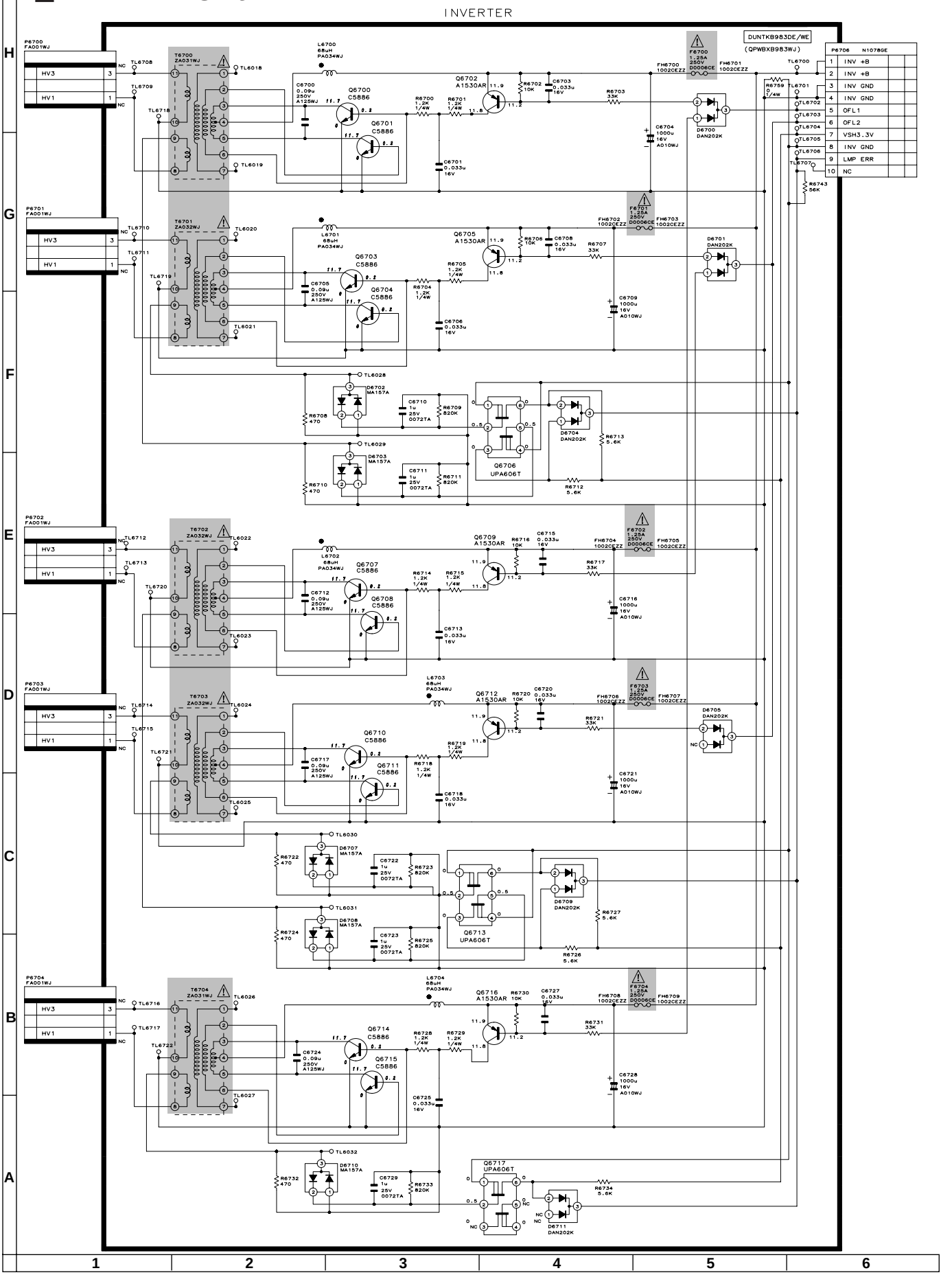
TUNER5(INVERTER/SW)



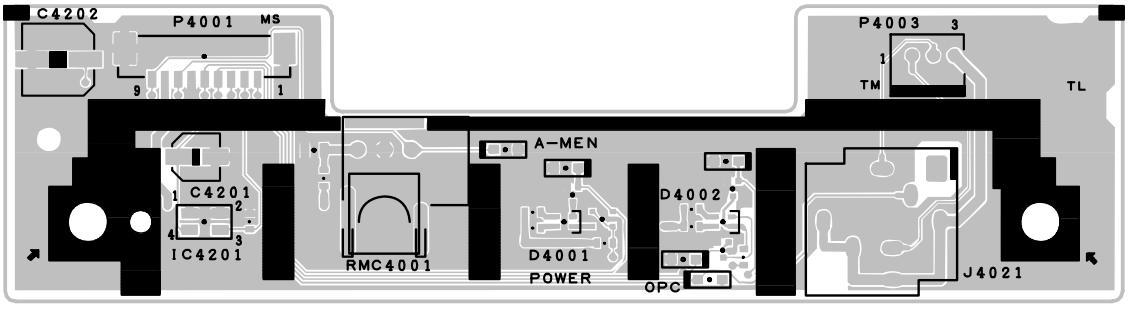


10	11	12	13	14	15	16	17	18	19

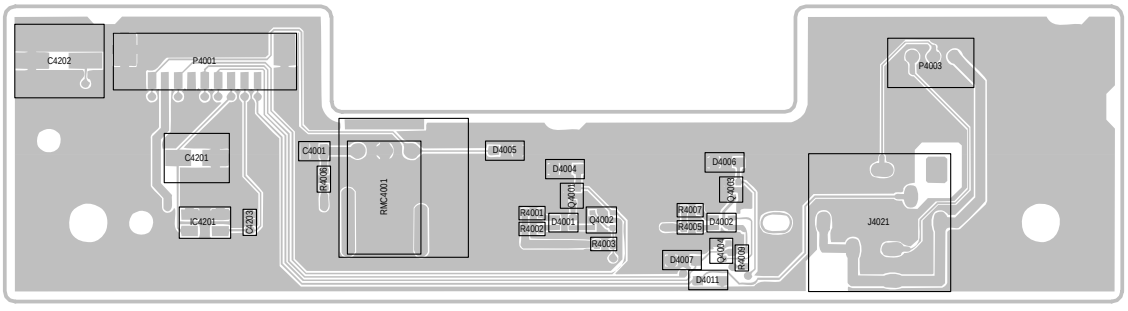
■ INVERTER Unit



PRINTED WIRING BOARD ASSEMBLIES

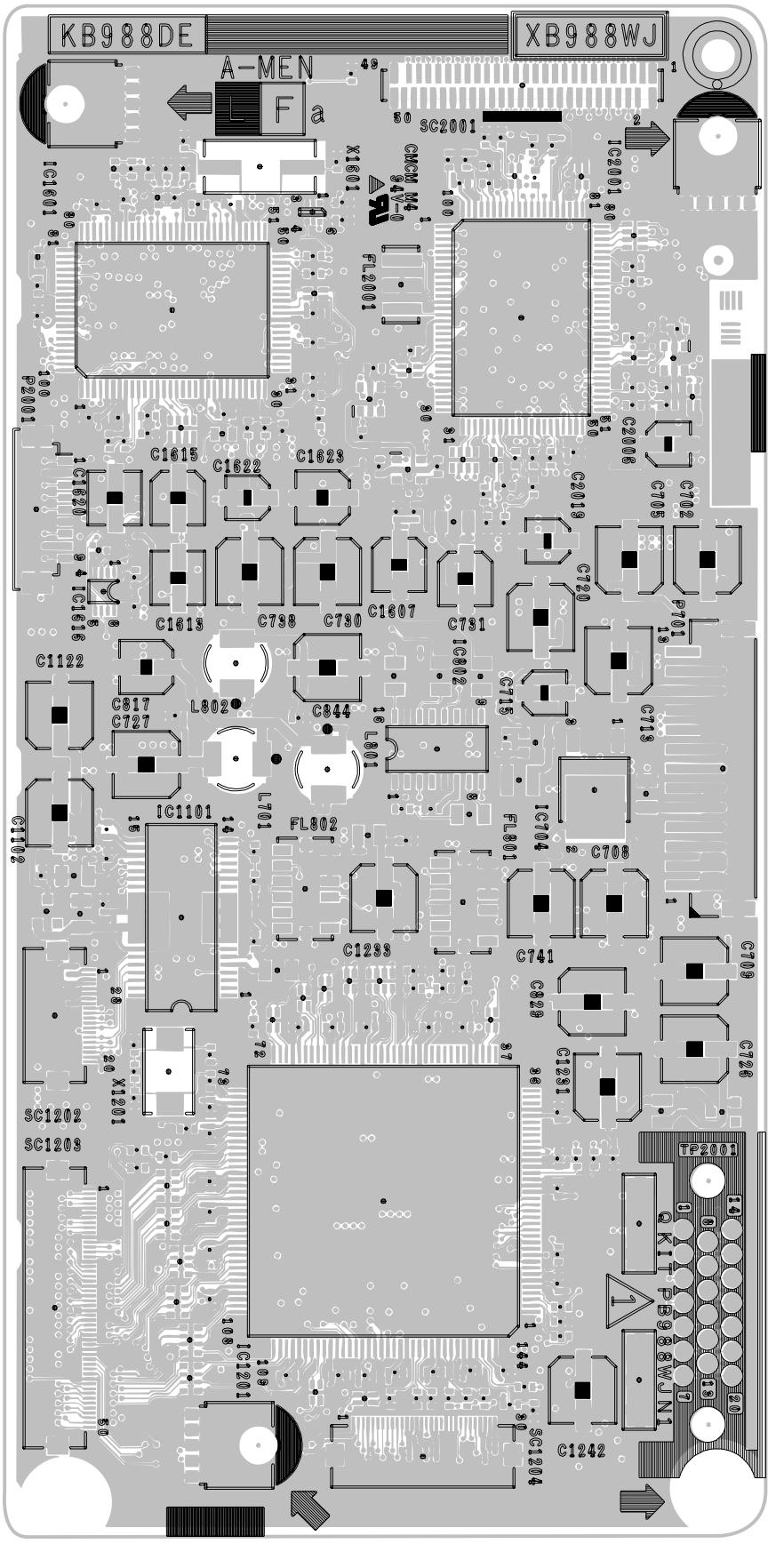


R/C, LED Unit (Side-A)
(QPWBSB985WJN3)

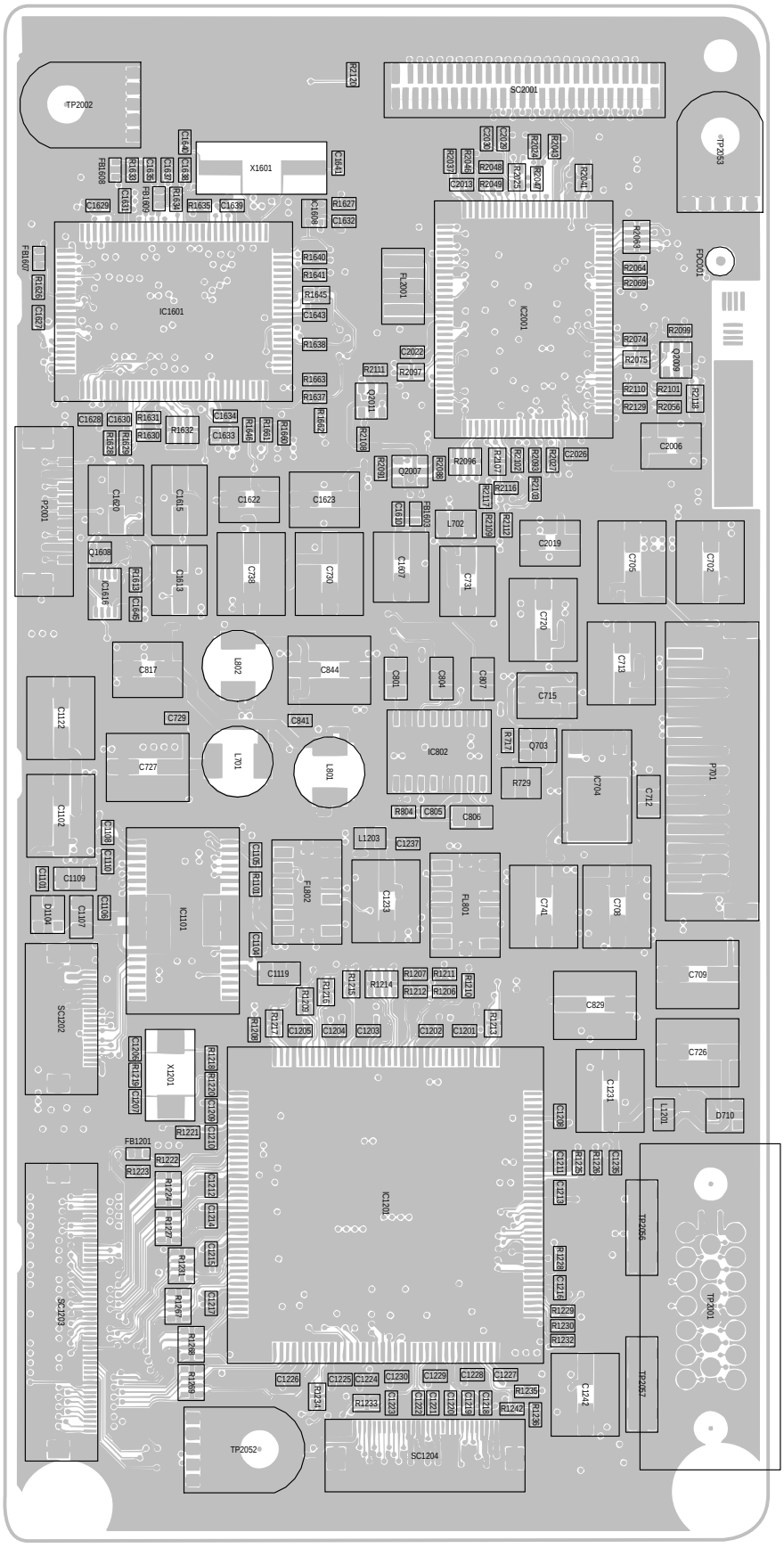


R/C, LED Unit (Chip Parts Side-A)
(QPWBSB985WJN3)

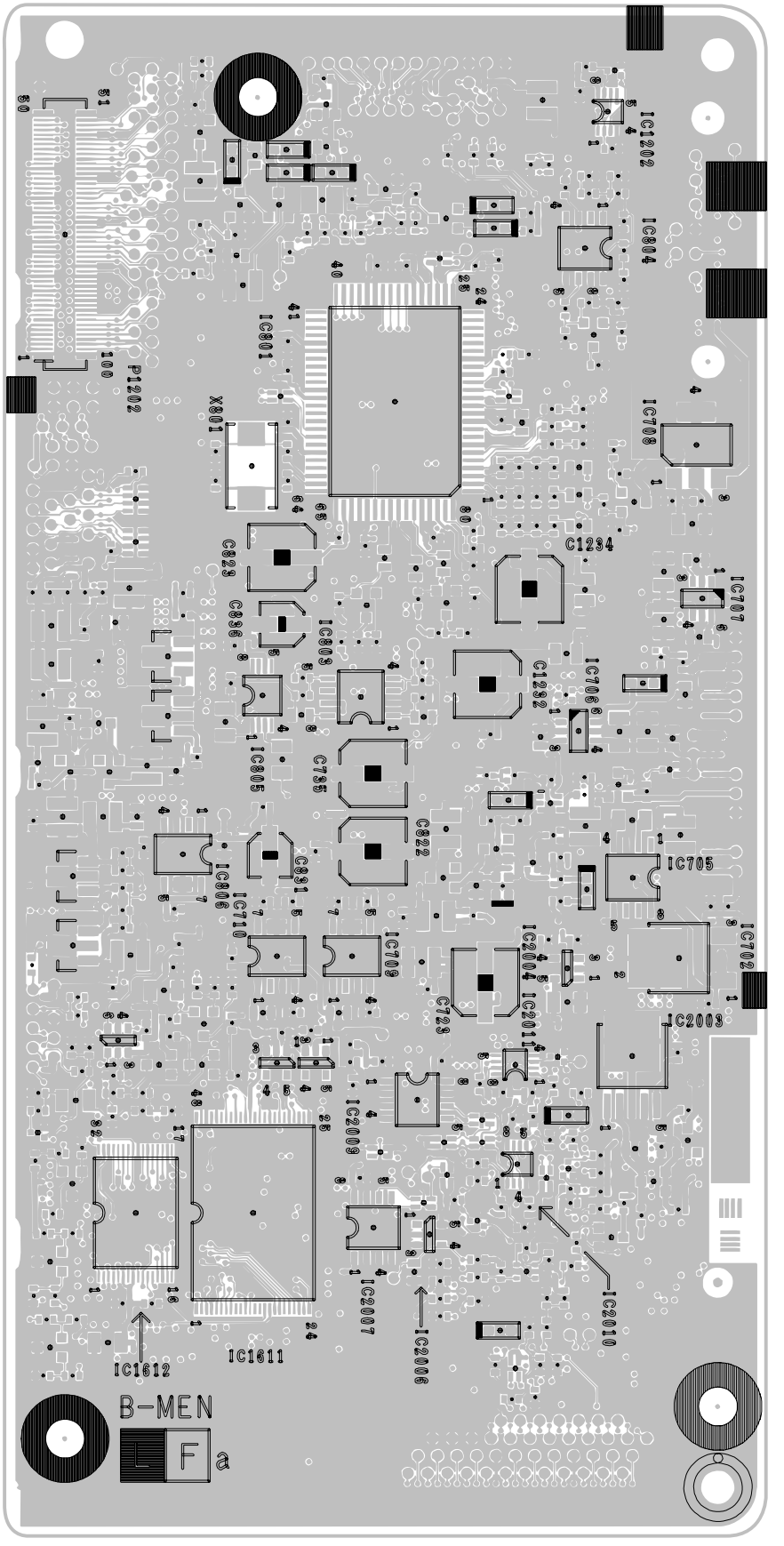
	1	2	3	4	5	6



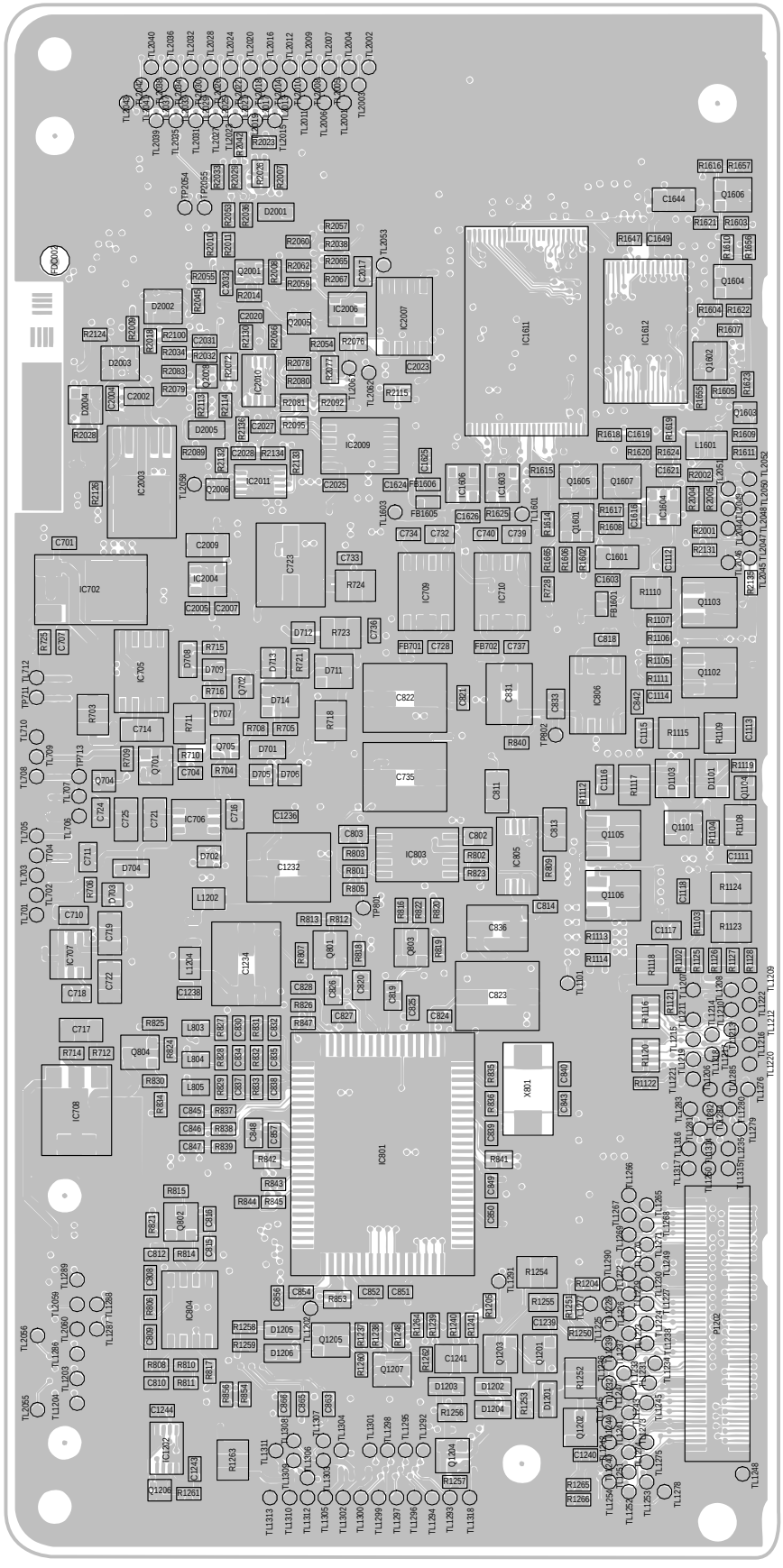
MAIN Unit (Side-A)



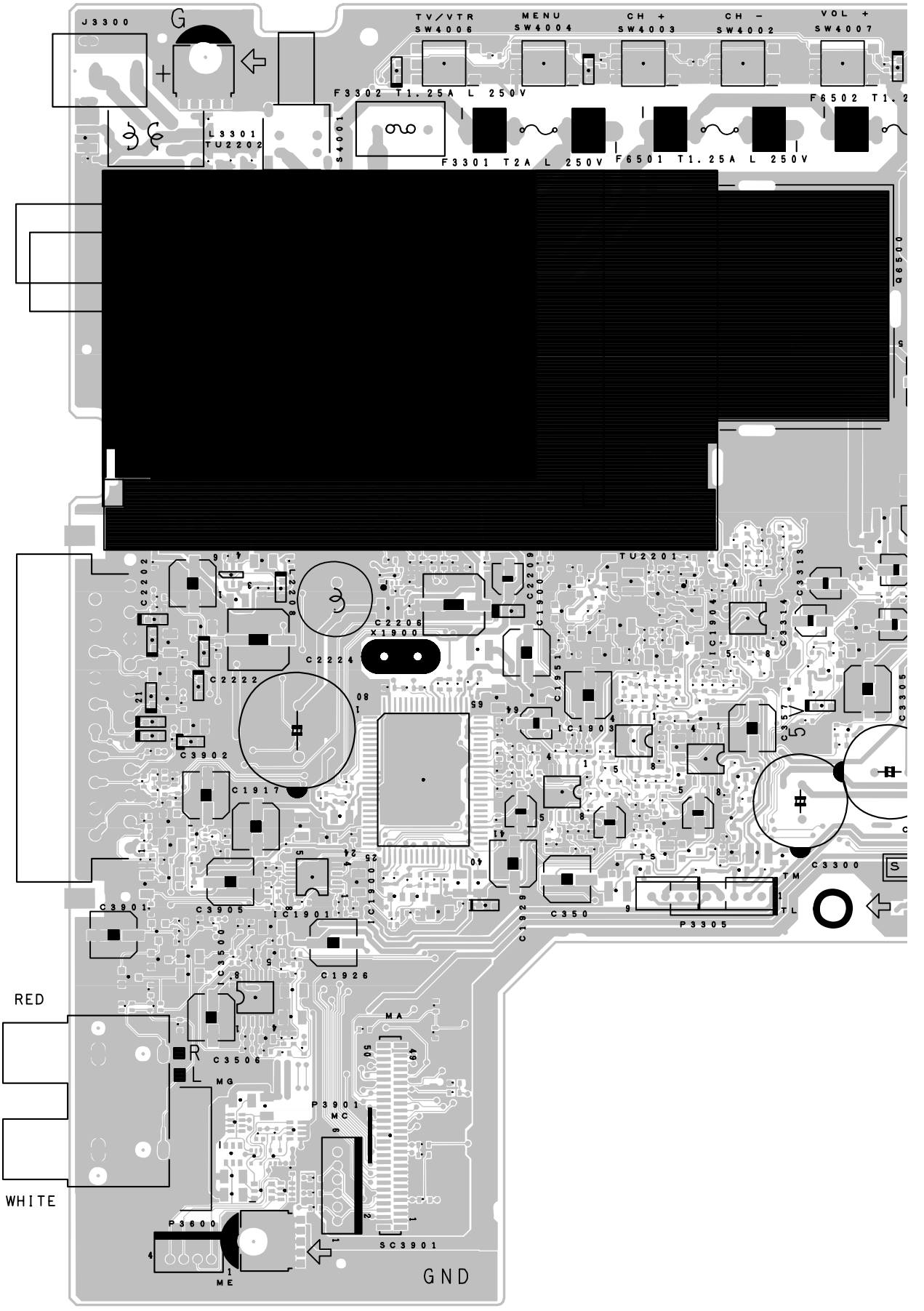
MAIN Unit (Chip Parts Side-A)

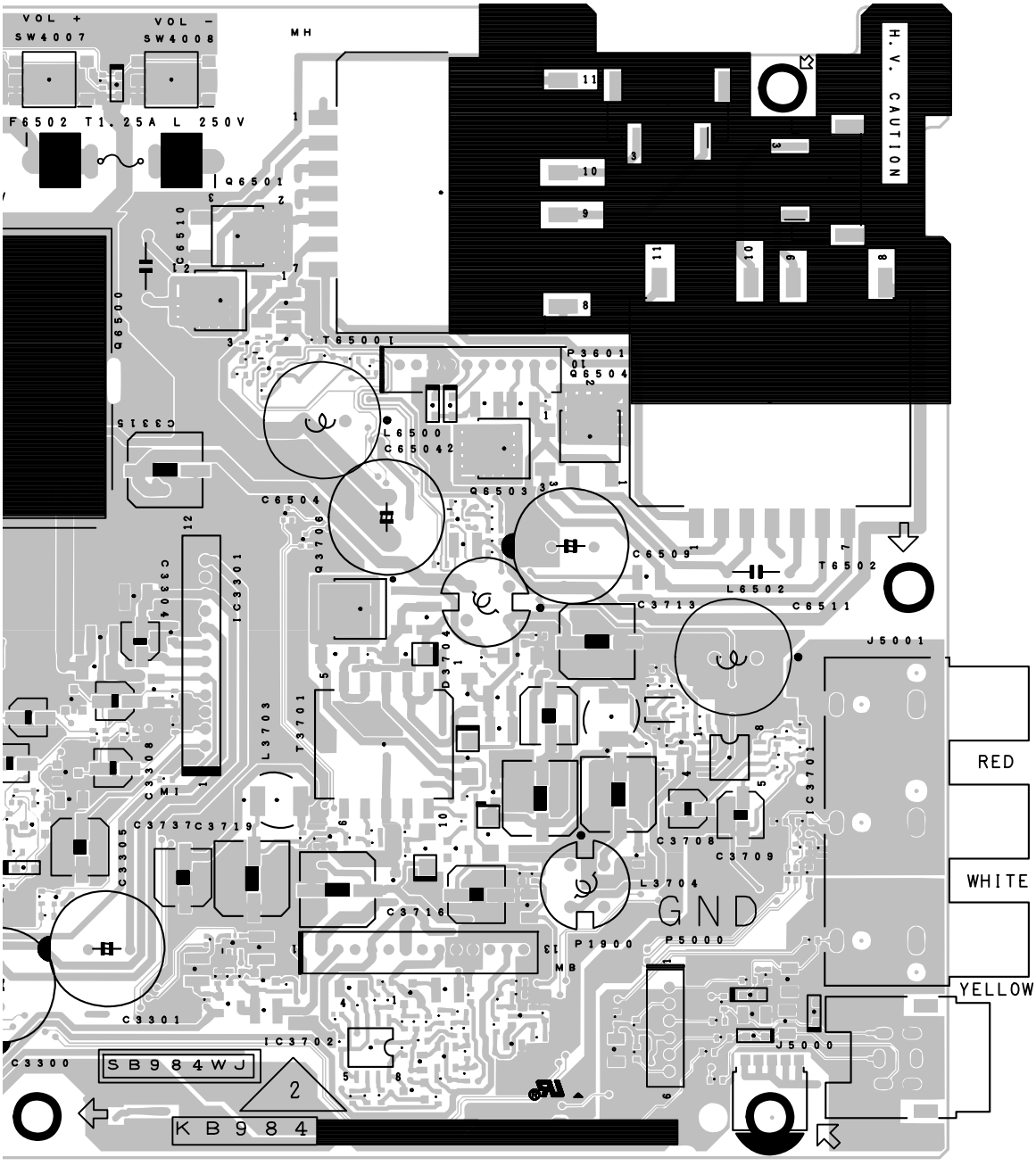


MAIN Unit (Side-B)



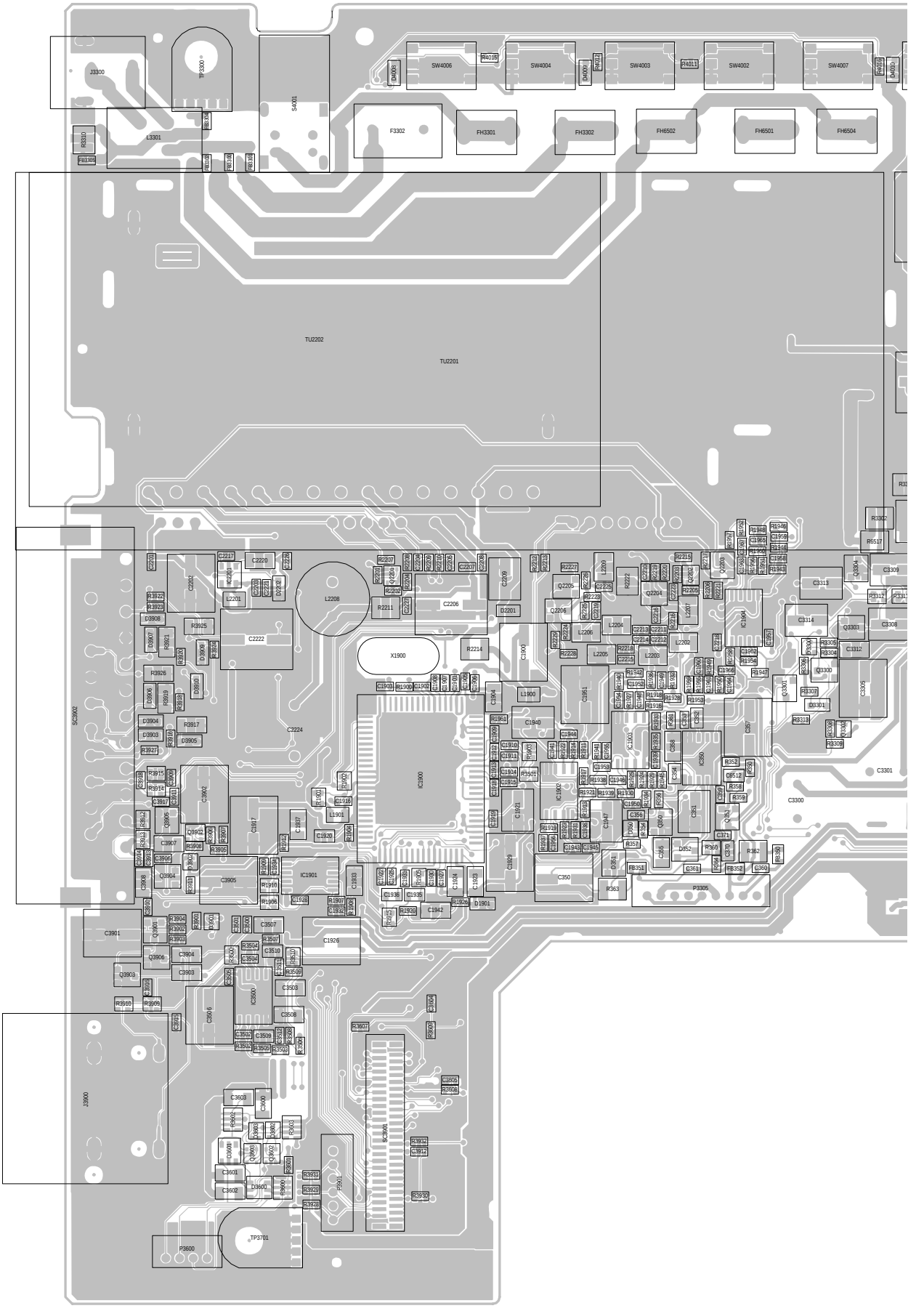
MAIN Unit (Chip Parts Side-B)

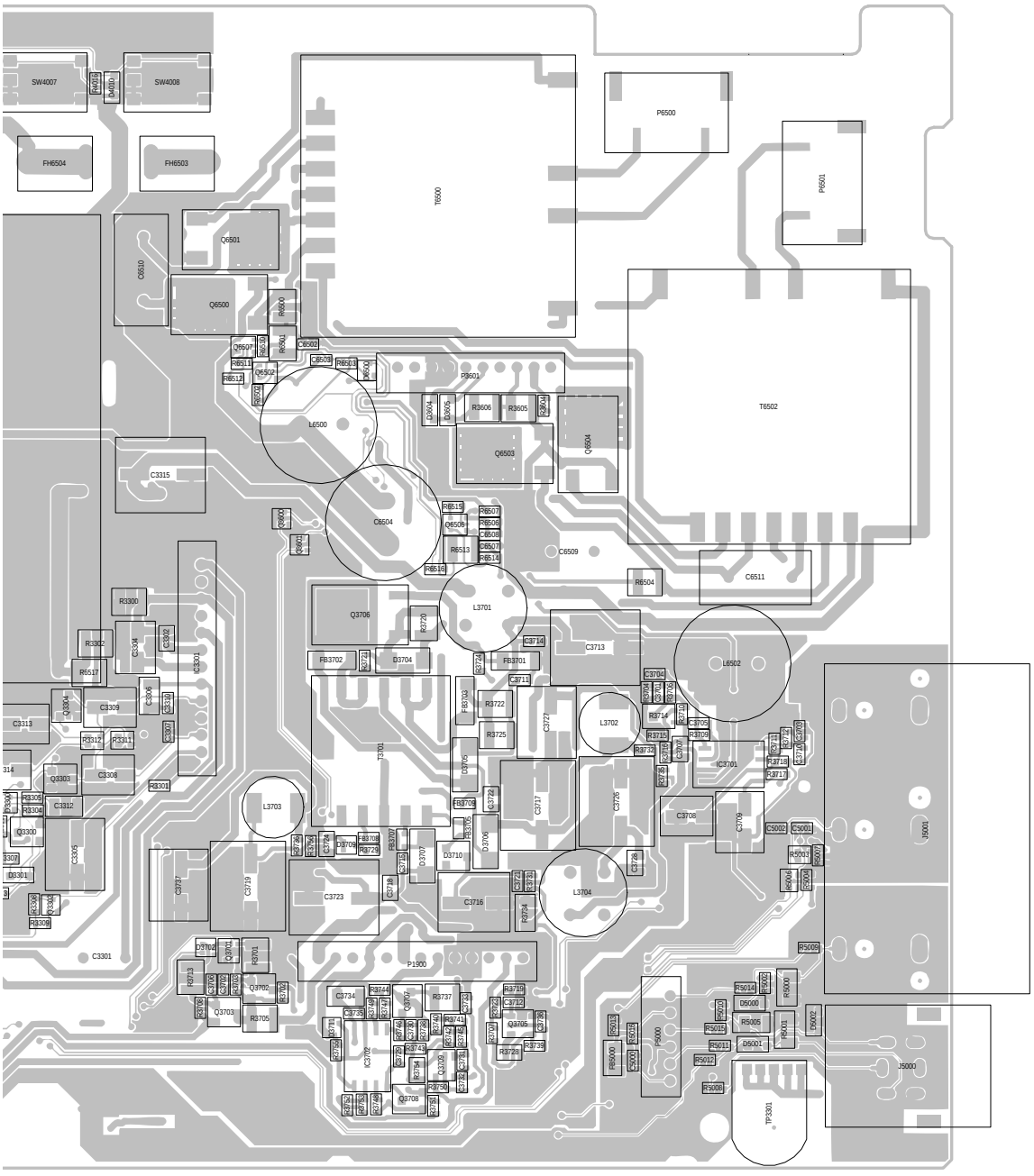

J3300
TV/VTR SW4006
MENU SW4004
CH + SW4003
CH − SW4002
VOL + SW4007
F3302 T1.25A L 250V
F3301 T2A L 250V
F6501 T1.25A L 250V
F6502 T1.2
L3301
TU2202
S4001
TU2201
C2202
C2206 X1900
C2224
C2222
C3902
C1917
C3901
C3905
IC1901
C1926
C3506
MG
P3901
MC
P3600
ME
SC3901
GND
RED
WHITE
C1951
C1900
C2209
IC1904
C3313
C3314
C3305
C3357
IC1903
C1929
C350
P3305
C3300
TM
TL
TS



TUNER Unit (Side-A)

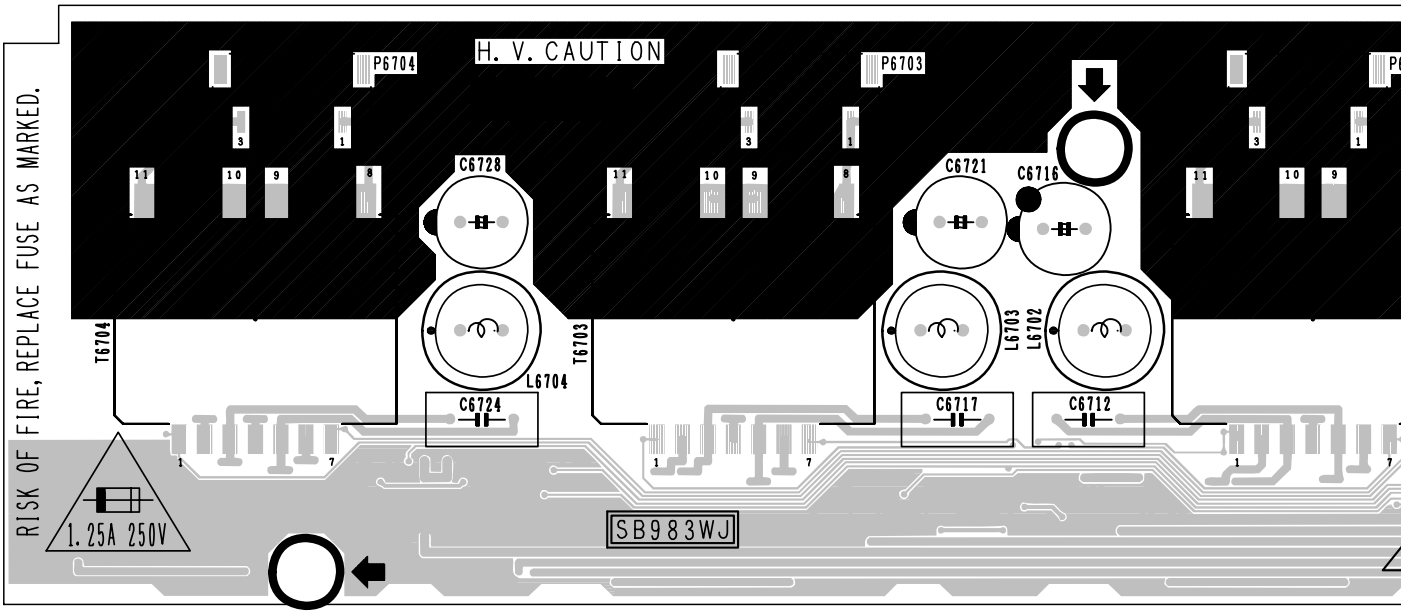
10	11	12	13	14	15	16	17	18	19

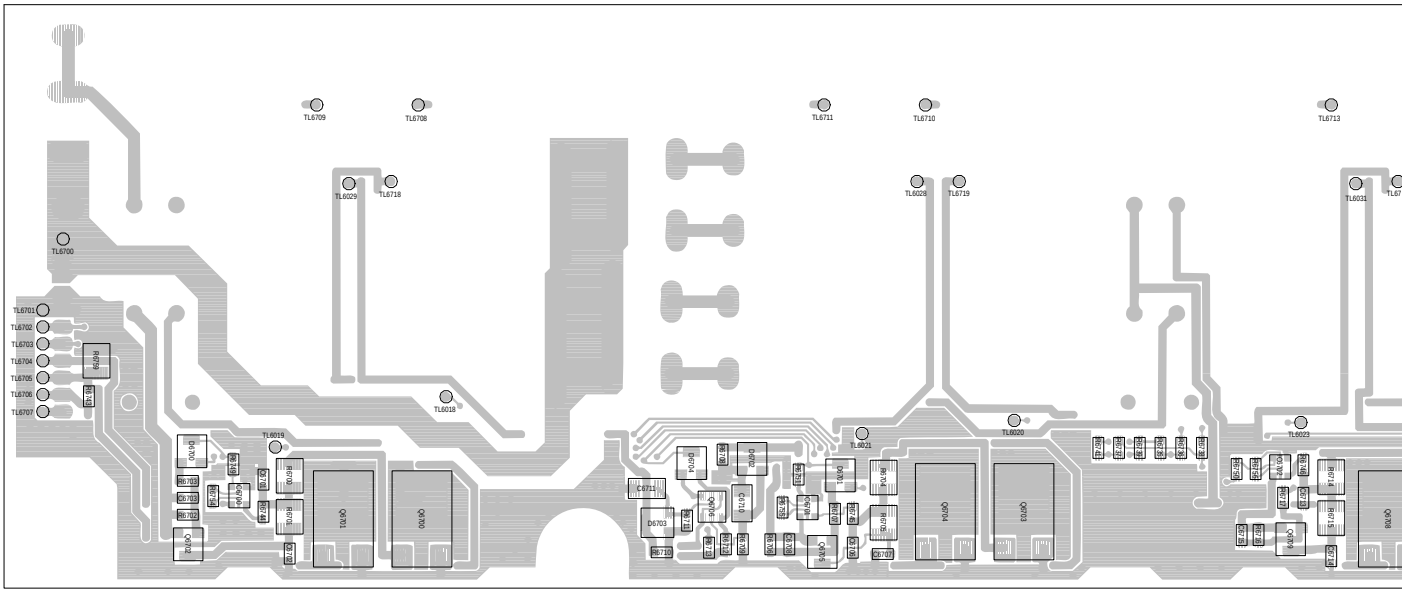

J3300
TP3300
S4001
SW4006
SW4004
SW4003
SW4002
SW4007
F3302
FH3301
FH3302
FH6502
FH6501
FH6504
L3301
TU2202
TU2201
X1900
IC1900
IC1901
SC3902
SC3901
J3900
TP3701
P3600
P3305
P3501

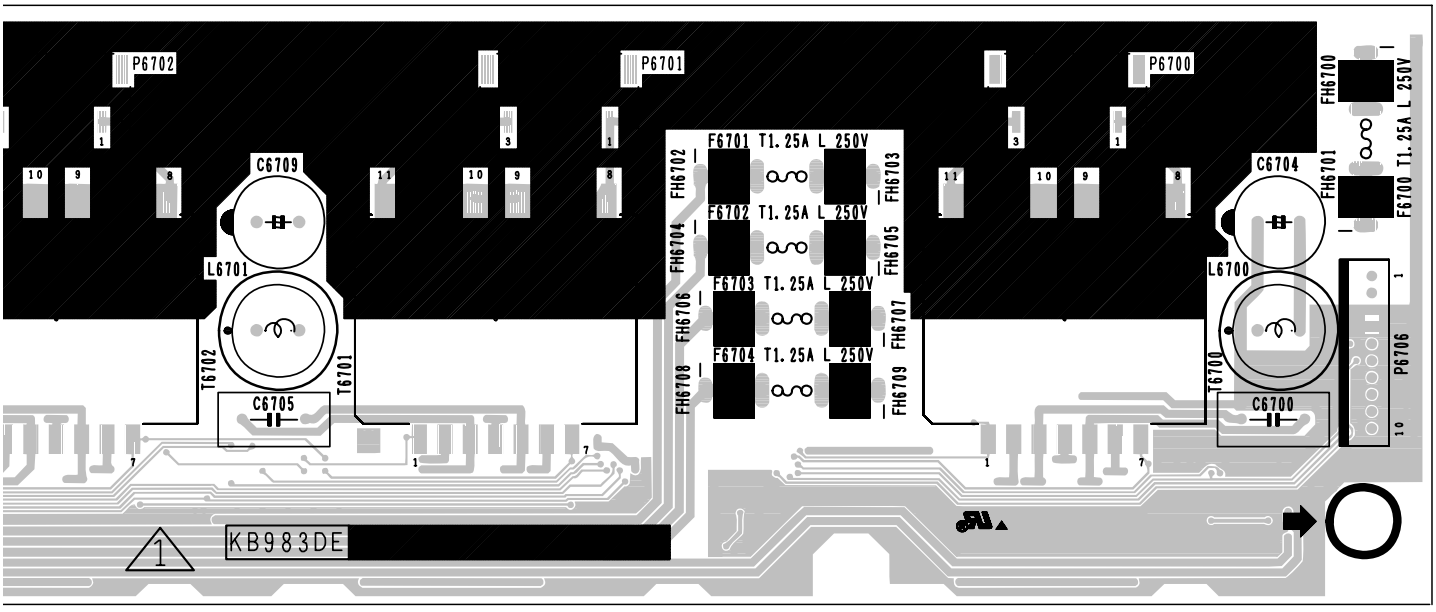


TUNER Unit (Chip Parts Side-A)

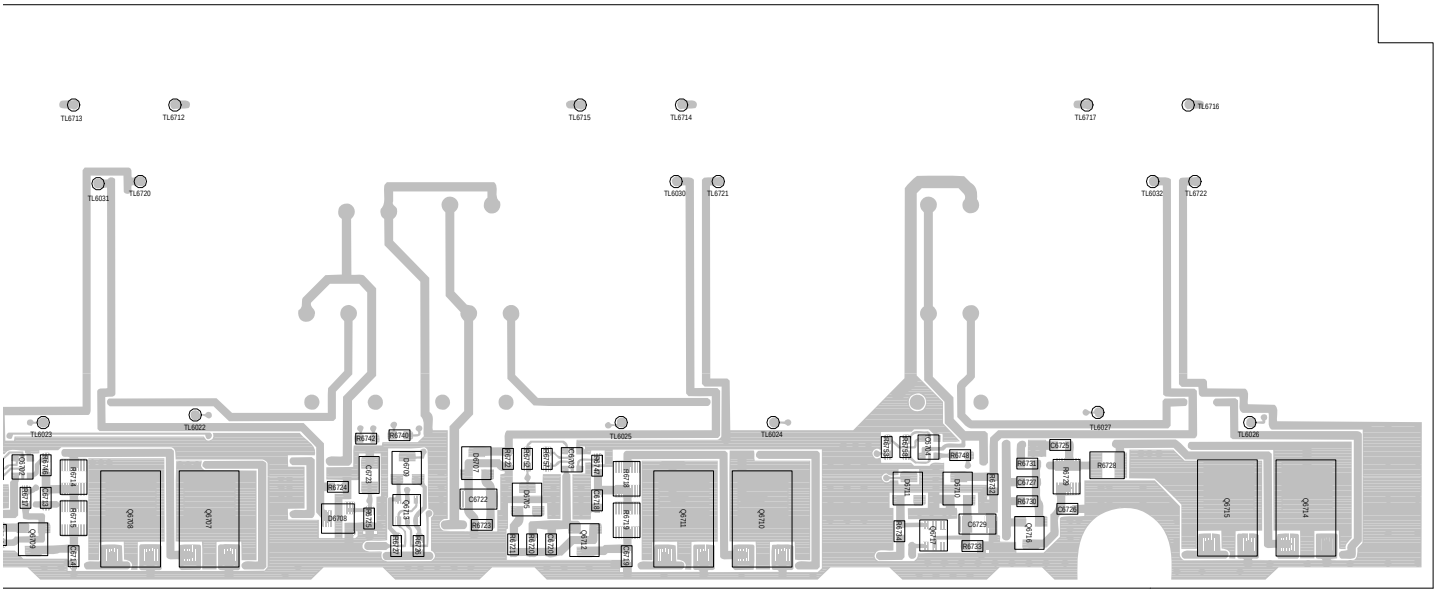
10	11	12	13	14	15	16	17	18	19


H. V. CAUTION
P6704
P6703
C6728
C6721
C6716
T6704
T6703
L6704
L6703
L6702
C6724
C6717
C6712
RISK OF FIRE, REPLACE FUSE AS MARKED.
1.25A 250V
SB983WJ





INVERTER Unit (Side-A)



INVERTER Unit (Side-B)

10	11	12	13	14	15	16	17	18	19

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES

(NOT REPLACEMENT ITEM)

DUNTKB983WE03	–	INVERTER Unit	—
DUNTKB984WE03	–	TUNER Unit	—
DUNTKB985WE03	–	R/C,LED Unit	—
DUNTKB988FE03	–	MAIN Unit	—

LCD PANEL

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

RLCDTA025WJZZ	J	20" LCD Panel Unit		DB

DUNTKB983WE03

INVERTER UNIT

TRANSISTORS

Q6700	VS2SC5886++-1Y	J	2SC5886	AE
Q6701	VS2SC5886++-1Y	J	2SC5886	AE
Q6702	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6703	VS2SC5886++-1Y	J	2SC5886	AE
Q6704	VS2SC5886++-1Y	J	2SC5886	AE
Q6705	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6706	VSUPA606T//-1Y	J	UPA606T	AD
Q6707	VS2SC5886++-1Y	J	2SC5886	AE
Q6708	VS2SC5886++-1Y	J	2SC5886	AE
Q6709	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6710	VS2SC5886++-1Y	J	2SC5886	AE
Q6711	VS2SC5886++-1Y	J	2SC5886	AE
Q6712	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6713	VSUPA606T//-1Y	J	UPA606T	AD
Q6714	VS2SC5886++-1Y	J	2SC5886	AE
Q6715	VS2SC5886++-1Y	J	2SC5886	AE
Q6716	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6717	VSUPA606T//-1Y	J	UPA606T	AD

DIODES

D6700	VHDDAN202K/-1Y	J	Diode	AB
D6701	VHDDAN202K/-1Y	J	Diode	AB
D6702	VHDMA157A//-1Y	J	Diode	AC
D6703	VHDMA157A//-1Y	J	Diode	AC
D6704	VHDDAN202K/-1Y	J	Diode	AB
D6705	VHDDAN202K/-1Y	J	Diode	AB
D6707	VHDMA157A//-1Y	J	Diode	AC
D6708	VHDMA157A//-1Y	J	Diode	AC
D6709	VHDDAN202K/-1Y	J	Diode	AB
D6710	VHDMA157A//-1Y	J	Diode	AC
D6711	VHDDAN202K/-1Y	J	Diode	AB

COILS

L6700	RCiLPA034WJZZ	J	Coil	AD
L6701	RCiLPA034WJZZ	J	Coil	AD
L6702	RCiLPA034WJZZ	J	Coil	AD
L6703	RCiLPA034WJZZ	J	Coil	AD
L6704	RCiLPA034WJZZ	J	Coil	AD

TRANSFORMERS

⚠	T6700	RTRNZA031WJZZQ	J	Transformer	AQ
⚠	T6701	RTRNZA032WJZZQ	J	Transformer	AQ
⚠	T6702	RTRNZA032WJZZQ	J	Transformer	AQ
⚠	T6703	RTRNZA032WJZZQ	J	Transformer	AQ
⚠	T6704	RTRNZA031WJZZQ	J	Transformer	AQ

CAPACITORS

C6700	RC-FZA125WJZZ	J	0.09	250V	Film	AD
C6701	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6703	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6704	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD
C6705	RC-FZA125WJZZ	J	0.09	250V	Film	AD
C6706	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6708	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6709	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD
C6710	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C6711	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C6712	RC-FZA125WJZZ	J	0.09	250V	Film	AD
C6713	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6715	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6716	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD
C6717	RC-FZA125WJZZ	J	0.09	250V	Film	AD
C6718	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6720	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6721	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD
C6722	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C6723	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C6724	RC-FZA125WJZZ	J	0.09	250V	Film	AD
C6725	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6727	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA
C6728	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD
C6729	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC

RESISTORS

R6700	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6701	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6702	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R6703	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R6704	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6705	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6706	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R6707	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R6708	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R6709	VRS-CY1JF824JY	J	820k	1/16W	Metal Oxide	AA
R6710	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R6711	VRS-CY1JF824JY	J	820k	1/16W	Metal Oxide	AA
R6712	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R6713	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R6714	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6715	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6716	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R6717	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R6718	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6719	VRS-TW2ED122JY	J	1.2k	1/4W	Metal Oxide	AA
R6720	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R6721	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R6722	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

DUNTKB983WE03
INVERTER UNIT (Continued)

R6723	VRS-CY1JF824JY	J	820k 1/16W	Metal Oxide		AA
R6724	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide		AA
R6725	VRS-CY1JF824JY	J	820k 1/16W	Metal Oxide		AA
R6726	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide		AA
R6727	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide		AA
R6728	VRS-TW2ED122JY	J	1.2k 1/4W	Metal Oxide		AA
R6729	VRS-TW2ED122JY	J	1.2k 1/4W	Metal Oxide		AA
R6730	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide		AA
R6731	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide		AA
R6732	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide		AA
R6733	VRS-CY1JF824JY	J	820k 1/16W	Metal Oxide		AA
R6734	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide		AA
R6743	VRS-CY1JF563JY	J	56k 1/16W	Metal Oxide		AA
R6759	VRS-TW2ED000JY	J	0 1/4W	Metal Oxide		AB

MISCELLANEOUS PARTS

⚠ F6700	QFS-D0006CEZZ	J	Fuse, 1.25A/250V			AF
⚠ F6701	QFS-D0006CEZZ	J	Fuse, 1.25A/250V			AF
⚠ F6702	QFS-D0006CEZZ	J	Fuse, 1.25A/250V			AF
⚠ F6703	QFS-D0006CEZZ	J	Fuse, 1.25A/250V			AF
⚠ F6704	QFS-D0006CEZZ	J	Fuse, 1.25A/250V			AF
FH6700	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6701	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6702	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6703	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6704	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6705	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6706	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6707	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6708	QFSHD1002CEZZ	J	Fuse Holder			AA
FH6709	QFSHD1002CEZZ	J	Fuse Holder			AA
P6700	QSOCFA001WJZZY	J	Socket, 3-pin			AC
P6701	QSOCFA001WJZZY	J	Socket, 3-pin			AC
P6702	QSOCFA001WJZZY	J	Socket, 3-pin			AC
P6703	QSOCFA001WJZZY	J	Socket, 3-pin			AC
P6704	QSOCFA001WJZZY	J	Socket, 3-pin			AC
P6706	QPLGN1078GEZZ	J	Plug, 10-pin			AC

Ref. No.	Part No.	★	Description	Code

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TUNER UNIT

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

TU2201	VTUVT4T5FD532	J	Tuner	BK

INTEGRATED CIRCUITS

IC350	VHiBH3543F+-1Y	J	BH3543F-E2	AE
IC1900	RH-iX1853BMZZQ	J	MSP3410G-QG-B8	BB
IC1901	VHiNJM4560M-1Y	J	NJM4560M	AG
IC1902	VHiNJM4560M-1Y	J	NJM4560M	AG
IC1903	VHiNJM4560M-1Y	J	NJM4560M	AG
IC1904	VHiNJM4560M-1Y	J	NJM4560M	AG
IC2201	VHiMM1506XN-1Y	J	MM1506XNRE	AD
IC3301	VHiLA4635A+-1S	J	LA4635A	AM
IC3500	VHiNJM4560M-1Y	J	NJM4560M	AG
IC3701	VHiNJM2377M-1Y	J	NJM2377M	AK
IC3702	VHiNJM2147M-1Y	J	NJM2147M-TE1	AF

TRANSISTORS

Q350	VSDTC144EKA-1Y	J	DTC144EKA	AB
Q351	VSFMMT718//-1Y	J	FMMT718	AE
Q2201	VSUMZ1N////-1Y	J	UMZ1N	AB
Q2202	VSUMZ1N////-1Y	J	UMZ1N	AB
Q2203	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2204	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2205	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2206	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3300	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3301	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3302	VSDTA144EE/-1Y	J	DTA144EE	AA
Q3303	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3304	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3600	VSDTC114YE/-1Y	J	DTC114YE	AB
Q3601	VSDTC114YE/-1Y	J	DTC114YE	AB
Q3701	VSUMH6N++++-1Y	S	UMH6N	AB
Q3702	VSFMMT718//-1Y	J	FMMT718	AE
Q3703	VSFMMT718//-1Y	J	FMMT718	AE
Q3705	VSFMY3/////-1Y	J	FMY3	AB
Q3706	VS2SK2503//-1Y	J	2SK2503	AE
Q3707	VSFMMT619//-1Y	J	FMMT619	AE
Q3708	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3709	VSFMY3/////-1Y	J	FMY3	AB
Q3901	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q3902	VSUMZ1N////-1Y	J	UMZ1N	AB
Q3903	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3904	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3905	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3906	VSDTC314TK/-1Y	J	DTC314TK	AC

DIODES

D350	VHDDAN222//-1Y	J	Diode	AA
D351	VHDMA3120WA-1Y	J	Diode	AD
D352	VHDMA3120WA-1Y	J	Diode	AD
D1901	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D2201	RH-EXA101WJZZY	J	Zener Diode	AA
D2202	RH-EX1264CEZZY	J	Zener Diode	AB
D3300	VHDDAN222//-1Y	J	Diode	AA
D3301	RH-EX1396CEZZY	J	Zener Diode, 6.8V	AB
D3604	RH-EX1283CEZZY	J	Zener Diode, 18V	AB
D3605	RH-EX1283CEZZY	J	Zener Diode, 18V	AB
D3702	VHDDAN222//-1Y	J	Diode	AA
D3705	VHDSFPB56//2EY	J	Diode	AC
D3706	VHDSFPB74//2EY	J	Diode	AD
D3707	VHDSFPB74//2EY	J	Diode	AD
D3709	VHDDAN222//-1Y	J	Diode	AA
D3710	VHD1SS250//1EY	J	Diode	AB
D3711	VHDDAN222//-1Y	J	Diode	AA
D3901	VHDDAN222//-1Y	J	Diode	AA
D3902	VHDDAN222//-1Y	J	Diode	AA
D3903	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
D3904	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB

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Ref. No.	Part No.	★	Description	Code
D3905	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3906	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3907	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3908	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3909	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3910	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4008	RH-EX1283CEZZY	J	Zener Diode	AB
D4009	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4010	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D5000	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D5001	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D5002	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
PACKAGED CIRCUITS				
X1900	RCRSB0250GEZZ	J	Crystal, 18.432MHz	AG
COILS				
L1900	VPCGM101M2R1NY	J	Peaking 100µH	AB
L1901	VPCGM4R7MR13NY	J	Peaking 4.7µH	AB
L2201	VPCGM100MR25NY	J	Peaking 10µH	AB
L2202	VP-1M5R6J1R2NY	J	Peaking 5.6µH	AB
L2203	VP-1M3R3JR93NY	J	Peaking 3.3µH	AB
L2204	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB
L2205	VP-1M2R7JR85NY	J	Peaking 2.7µH	AB
L2206	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB
L2207	VP-1M100J1R6NY	J	Peaking 10µH	AB
L2208	RCiLPA142WJZZ	J	Coil	AD
L2209	VP-1M100J1R6NY	J	Peaking 10µH	AB
L3301	RCiLFA069WJZZ	J	Coil	AH
L3701	RCiLPA026WJZZ	J	Coil	AD
L3702	RCiLPA144WJZZY	J	Coil	AD
L3703	RCiLPA143WJZZY	J	Coil	AD
L3704	RCiLPA026WJZZ	J	Coil	AD
TRANSFORMER				
⚠ T3701	RTRNWA090WJZZY	J	Transformer	AH
CONTROL				
R3714	RVR-M0111CEZZY	J	1k(B) +B Adj.	AC
CAPACITORS				
C350	RC-EZA126WJZZY	J	47 16V Electrolytic	AC
C351	RC-EZA124WJZZY	J	10 16V Electrolytic	AB
C352	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C353	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C354	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C355	RC-KZ0075TAZZY	J	2.2 16V Ceramic	AC
C356	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C357	RC-EZA126WJZZY	J	47 16V Electrolytic	AC
C358	RC-KZ0044TAZZY	J	4.7 10V Ceramic	AD
C359	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C360	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C361	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C370	RC-KZA043WJZZY	J	10 6.3V Ceramic	AC
C1900	RC-EZ0417CEZZY	J	150 16V Electrolytic	AD
C1901	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C1902	VCCCCY1HH5R0CY	J	5p 50V Ceramic	AA
C1903	VCCCCY1HH5R0CY	J	5p 50V Ceramic	AA
C1904	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1905	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C1906	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1907	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C1908	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C1909	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1910	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C1911	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C1912	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1913	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1914	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C1915	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C1916	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1917	RC-EZ0417CEZZY	J	150 16V Electrolytic	AD
C1918	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1919	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1920	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1921	RC-EZA130WJZZY	J	3.3 50V Electrolytic	AB
C1922	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1923	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1924	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1925	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1926	RC-EZ0417CEZZY	J	150 16V Electrolytic	AD
C1927	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1928	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1930	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C1931	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C1932	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1933	RC-KZ0044TAZZY	J	4.7 10V Ceramic	AD
C1934	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1935	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1936	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1937	RC-KZ0044TAZZY	J	4.7 10V Ceramic	AD
C1938	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1939	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1941	VCKYCY1CB473KY	J	0.047 16V Ceramic	AA
C1942	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1943	VCKYCY1CB473KY	J	0.047 16V Ceramic	AA
C1944	VCKYCY1CB473KY	J	0.047 16V Ceramic	AA
C1945	VCKYCY1CB473KY	J	0.047 16V Ceramic	AA
C1946	VCKYCY1CB273KY	J	0.027 16V Ceramic	AB
C1948	VCKYCY1CB273KY	J	0.027 16V Ceramic	AB
C1949	VCKYCY1CB273KY	J	0.027 16V Ceramic	AB
C1950	VCKYCY1CB273KY	J	0.027 16V Ceramic	AB
C1951	RC-EZA126WJZZY	J	47 16V Electrolytic	AC
C1952	VCKYCY1CB273KY	J	0.027 16V Ceramic	AB
C1953	VCKYCY1CB273KY	J	0.027 16V Ceramic	AB
C1956	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1957	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1960	VCKYCY1HB272KY	J	2700p 50V Ceramic	AA
C1961	VCKYCY1HB272KY	J	2700p 50V Ceramic	AA
C1963	VCKYCY1HB272KY	J	2700p 50V Ceramic	AA
C1964	VCKYCY1EB153KY	J	0.015 25V Ceramic	AA
C1965	VCKYCY1EB153KY	J	0.015 25V Ceramic	AA
C1967	VCKYCY1HB272KY	J	2700p 50V Ceramic	AA
C2201	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2202	RC-EZA123WJZZY	J	100 6.3V Electrolytic	AC
C2203	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2204	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2205	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2206	VCEASH1CN477MY	J	470 16V Electrolytic	AD
C2207	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2208	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C2209	RC-EZA128WJZZY	J	1 50V Electrolytic	AB
C2210	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2211	VCCCCY1HH121JY	J	120p 50V Ceramic	AA
C2212	VCCCCY1HH820JY	J	82p 50V Ceramic	AA
C2213	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2214	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C2215	VCCCCY1HH121JY	J	120p 50V Ceramic	AA
C2216	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2217	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2218	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2219	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2220	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C2221	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2222	VCEASH1CN477MY	J	470 16V Electrolytic	AD
C2223	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2224	RC-EZ1351CEZZ	J	3300 6.3V Electrolytic	AF
C2225	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3300	RC-EZ1274CEZZ	J	1000 16V Electrolytic	AD
C3301	RC-EZ1274CEZZ	J	1000 16V Electrolytic	AD
C3302	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C3304	RC-EZA124WJZZY	J	10 16V Electrolytic	AB
C3305	RC-EZA127WJZZY	J	100 16V Electrolytic	AC
C3306	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C3307	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C3308	RC-EZA128WJZZY	J	1 50V Electrolytic	AB

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Ref. No.	Part No.	★			Description	Code
C3309	RC-EZA128WJZZY	J	1	50V	Electrolytic	AB
C3310	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3312	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3313	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3314	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3315	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C3500	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3501	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3502	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3503	RC-KZ0044TAZZY	J	4.7	10V	Ceramic	AD
C3504	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3505	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3506	RC-EZ0417CEZZY	J	150	16V	Electrolytic	AD
C3507	RC-KZ0044TAZZY	J	4.7	10V	Ceramic	AD
C3508	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3509	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3510	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3511	VCKYCY1HB682KY	J	6800p	50V	Ceramic	AA
C3512	VCKYCY1HB682KY	J	6800p	50V	Ceramic	AA
C3604	VCKYCY1HB332KY	J	3300p	50V	Ceramic	AA
C3702	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3703	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3705	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA
C3706	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3708	RC-EZA140WJZZY	J	4.7	25V	Electrolytic	AB
C3709	VCEAPT1CN226MY	J	22	16V	Electrolytic	AC
C3710	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C3711	VCKYCY1HB562KY	J	5600p	50V	Ceramic	AA
C3712	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3713	VCAAPF1CJ826MY	J	82	16V	Electrolytic	AG
C3714	VCKYCY1HB562KY	J	5600p	50V	Ceramic	AA
C3715	VCCCCY1HH181JY	J	180p	50V	Ceramic	AA
C3716	VCEASH1HN476MY	J	47	50V	Electrolytic	AD
C3717	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C3718	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3719	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C3721	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C3722	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3723	VCAAPF0JJ157MY	J	150	6.3V	Electrolytic	AG
C3724	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3726	VCEASH1CN477MY	J	470	16V	Electrolytic	AD
C3727	RC-EZ1339CEZZY	J	220	16V	Electrolytic	AD
C3728	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3729	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C3730	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C3731	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3732	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3733	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA
C3734	RC-KZ0075TAZZY	J	2.2	16V	Ceramic	AC
C3735	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3736	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3737	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3901	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C3902	RC-EZA126WJZZY	J	47	16V	Electrolytic	AC
C3903	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3904	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3905	RC-EZA126WJZZY	J	47	16V	Electrolytic	AC
C3906	VCCCCY1HH331JY	J	330p	50V	Ceramic	AA
C3907	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3908	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3909	VCCCCY1HH221JY	J	220p	50V	Ceramic	AA
C3910	VCCCCY1HH331JY	J	330p	50V	Ceramic	AA
C3911	VCCCCY1HH221JY	J	220p	50V	Ceramic	AA
C3912	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3913	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3914	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3915	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3916	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3917	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3918	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C5000	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C5001	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C5002	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C6513	VCKYCY1HB332KY	J	3300p	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★			Description	Code
R352	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R354	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R356	VRS-CY1JF123JY	J	12k	1/16W	Metal Oxide	AA
R357	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R358	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R359	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R360	VRS-CJ1JF392JY	S	3.9k	1/16W	Metal Oxide	AA
R361	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R362	VRS-TW2HF220JY	J	22	1/2W	Metal Oxide	AA
R363	VRS-TW2HF220JY	J	22	1/2W	Metal Oxide	AA
R364	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1900	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R1901	VRS-CJ1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1902	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R1903	VRS-CJ1JF473JY	S	47k	1/16W	Metal Oxide	AA
R1904	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1905	VRS-CJ1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1906	VRS-CJ1JF471JY	S	470	1/16W	Metal Oxide	AA
R1907	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R1908	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R1909	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R1910	VRS-CJ1JF104JY	S	100k	1/16W	Metal Oxide	AA
R1912	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R1913	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R1915	VRS-CJ1JF473JY	S	47k	1/16W	Metal Oxide	AA
R1917	VRS-CY1JF683FY	J	68k	1/16W	Metal Oxide	AA
R1919	VRS-CY1JF683FY	J	68k	1/16W	Metal Oxide	AA
R1920	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R1922	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R1923	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R1926	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R1927	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R1928	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R1929	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R1930	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R1932	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R1933	VRS-CY1JF392FY	J	3.9k	1/16W	Metal Oxide	AA
R1934	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R1935	VRS-CY1JF392FY	J	3.9k	1/16W	Metal Oxide	AA
R1936	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R1937	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R1938	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R1939	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1942	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1943	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1947	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1948	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R1949	VRS-CY1JF223FY	J	22k	1/16W	Metal Oxide	AA
R1950	VRS-CY1JF223FY	J	22k	1/16W	Metal Oxide	AA
R1951	VRS-CY1JF223FY	J	22k	1/16W	Metal Oxide	AA
R1952	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1953	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R1955	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1957	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R1959	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R1960	VRS-CY1JF223FY	J	22k	1/16W	Metal Oxide	AA
R1961	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1962	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R2201	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R2202	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R2203	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R2204	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R2205	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R2206	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R2207	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2209	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2210	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2211	VRS-TW2ED000JY	J	0	1/4W	Metal Oxide	AB
R2212	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2213	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA

DUNTKB984WE03
TUNER UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
R2214	VRS-TW2HF1R0JY	J	1	1/2W	Metal Oxide	AA
R2215	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2216	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R2217	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2218	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2219	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R2220	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R2221	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R2222	VRS-TW2HF471JY	J	470	1/2W	Metal Oxide	AA
R2223	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R2224	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R2225	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R2226	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R2227	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2228	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R2229	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R3300	VRS-TW2HF000JY	J	0	1/2W	Metal Oxide	AA
R3301	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R3302	VRS-TW2HF000JY	J	0	1/2W	Metal Oxide	AA
R3304	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3305	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3306	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3307	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R3309	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3310	VRS-TW2HF000JY	J	0	1/2W	Metal Oxide	AA
R3311	VRS-CJ1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R3312	VRS-CJ1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R3313	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3500	VRS-CJ1JF471JY	S	470	1/16W	Metal Oxide	AA
R3501	VRS-CJ1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3502	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R3503	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R3504	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R3505	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R3506	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3507	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R3508	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3509	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R3510	VRS-CJ1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3605	VRS-TW2ED000JY	J	0	1/4W	Metal Oxide	AB
R3607	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3701	VRS-TW2ED102JY	J	1k	1/4W	Metal Oxide	AA
R3703	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3705	VRS-TW2ED1R0JY	J	1	1/4W	Metal Oxide	AB
R3706	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R3707	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R3708	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3709	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R3711	VRS-CY1JF274JY	J	270k	1/16W	Metal Oxide	AA
R3712	VRS-CY1JF133FY	J	13k	1/16W	Metal Oxide	AA
R3713	VRS-TW2ED102JY	J	1k	1/4W	Metal Oxide	AA
R3715	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R3716	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R3717	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R3718	VRS-CY1JF184JY	J	180k	1/16W	Metal Oxide	AA
R3719	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3720	VRS-TW2HF000JY	J	0	1/2W	Metal Oxide	AA
R3722	VRS-TW2HF152JY	J	1.5k	1/2W	Metal Oxide	AA
R3723	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3725	VRS-TW2HF152JY	J	1.5k	1/2W	Metal Oxide	AA
R3728	VRS-TV1JD103JY	J	10k	1/10W	Metal Oxide	AA
R3729	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R3731	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3734	VRS-TQ2BD683JY	J	68k	1/8W	Metal Oxide	AA
R3735	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3737	VRS-TW2ED561JY	J	560	1/4W	Metal Oxide	AA
R3738	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3739	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R3740	VRS-CY1JF182FY	J	1.8k	1/16W	Metal Oxide	AA
R3741	VRS-CY1JF122FY	J	1.2k	1/16W	Metal Oxide	AA
R3742	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R3743	VRS-CY1JF122FY	J	1.2k	1/16W	Metal Oxide	AA
R3744	VRS-CY1JF243FY	J	24k	1/16W	Metal Oxide	AA
R3745	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3746	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3747	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3748	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3749	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R3750	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R3751	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R3752	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R3753	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R3754	VRS-TV1JD103JY	J	10k	1/10W	Metal Oxide	AA
R3755	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3756	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R3902	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3903	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3904	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3905	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3906	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3907	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3908	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3909	VRS-CJ1JF271JY	S	270	1/16W	Metal Oxide	AA
R3910	VRS-CJ1JF104JY	S	100k	1/16W	Metal Oxide	AA
R3911	VRS-CY1JF823JY	J	82k	1/16W	Metal Oxide	AA
R3912	VRS-CJ1JF104JY	S	100k	1/16W	Metal Oxide	AA
R3913	VRS-CJ1JF271JY	S	270	1/16W	Metal Oxide	AA
R3914	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R3915	VRS-CJ1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3916	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3917	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3918	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3919	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3920	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3921	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3922	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3923	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3924	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3925	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3926	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3927	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3928	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3929	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3930	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3931	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3932	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R4011	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R4012	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R4015	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R4016	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R5000	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R5001	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R5002	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R5003	VRS-CJ1JF473JY	S	47k	1/16W	Metal Oxide	AA
R5004	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R5005	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R5006	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R5007	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R5008	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R5009	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R5010	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R5012	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R5013	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R6518	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA

SWITCHES

S4001	QSW-PA011WJZZ	J	MAIN POWER	AF
SW4002	QSW-K0065GEZZY	J	CH(∨)	AD
SW4003	QSW-K0065GEZZY	J	CH(∧)	AD
SW4004	QSW-K0065GEZZY	J	MENU	AD
SW4006	QSW-K0065GEZZY	J	TV/VIDEO	AD
SW4007	QSW-K0065GEZZY	J	VOL(+)	AD
SW4008	QSW-K0065GEZZY	J	VOL(–)	AD

MISCELLANEOUS PARTS

⚠ F3301	QFS-D0008CEZZ	J	Fuse, 2A/250V	AE

Ref. No.	Part No.	★	Description	Code

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TUNER UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
⚠ F3302	QFS-ZA002WJZZ	J	Fuse, 1.25A/250V	AD
FH3301	QFSHD1002CEZZ	J	Fuse Holder	AA
FH3302	QFSHD1002CEZZ	J	Fuse Holder	AA
FB350	RBLN-0062TAZZY	J	Ferrite Bead	AB
FB351	RBLN-0062TAZZY	J	Ferrite Bead	AB
FB352	RBLN-0062TAZZY	J	Ferrite Bead	AB
FB3300	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB3301	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB3302	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB3304	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB3305	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB3701	RBLN-0095CEZZY	J	Ferrite Bead	AD
FB3702	RBLN-0095CEZZY	J	Ferrite Bead	AD
FB3703	RBLN-0095CEZZY	J	Ferrite Bead	AD
FB3705	RBLN-0051TAZZY	J	Ferrite Bead	AC
FB3707	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB3708	RBLN-0051TAZZY	J	Ferrite Bead	AC
FB3709	RBLN-0254TAZZY	J	Ferrite Bead	AB
FB5000	RBLN-0062CEZZY	J	Ferrite Bead	AC
J3300	QJAKCA010WJZZ	J	POWER INPUT DC 12V	AF
J3900	QJAKFA021WJZZ	S	AUDIO OUT(L/R)	AD
J5000	QSOCD0456CEZZ	J	S-VIDEO(AV-IN2)	AE
J5001	QJAKGA038WJZZ	J	AUDIO(L/R)/VIDEO(AV-IN2)	AE
P350	QPLGN0378GEZZ	J	Plug, 3-pin(TM)	AB
P3301	QPLGN0478GEZZ	J	Plug, 3-pin(TS)	AB
P3601	QPLGN1078GEZZ	J	Plug, 10pin	AC
SC3901	QSOCN0464FJZZY	J	Socket, 50-pin(MA)	AH
SC3902	QSOCZA056WJZZ	S	AV-IN1(21-pin Euro-SCART)	AH
TP3300	QLUGHA006WJZZY	J	Lug	AA
TP3301	QLUGHA006WJZZY	J	Lug	AA
TP3701	QLUGHA006WJZZY	J	Lug	AA
	PSLDMA208WJFW	J	Shield	AD
	QCNW-B519WJQZ	J	Connecting Cord	AH
	LANGT9102CEFW	J	Fixing Metal	AF

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R/C, LED UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC4201	VHiTPS850++-1Y	J	TPS850	AG

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q4001	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4002	VSUMG4N++++-1Y	J	UMG4N	AB
Q4003	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4004	VSDTC144EE/-1Y	J	DTC144EE	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D4001	RH-PX0421CEZZY	J	Power/Standby/ Remote Sensor Indicator	AD
D4002	RH-PX0421CEZZY	J	OPC Sensor Indicator	AD
D4004	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4005	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4006	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4007	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4011	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB

CAPACITORS

Ref. No.	Part No.	★				Code
C4001	RC-KZ0117TAZZY	J	4.7	6.3V	Ceramic	AD
C4201	RC-EZA124WJZZY	J	10	16V	Electrolytic	AB
C4202	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C4203	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R4001	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R4002	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4003	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4006	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R4007	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R4009	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
J4021	QJAKJ0068CEZZ	J	Headphone Jack	AG
P4001	QPLGN0958REZZY	J	Plug, 9-pin(MS)	AC
P4003	QPLGN0378GEZZ	J	Plug, 3-pin(TM)	AB
RMC4001	RRMCU0239CEZZ	J	R/C Receiver	AG
	QCNW-B780WJZZ	S	Connecting Cord	AC

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MAIN UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC702	VHiBA05FP++-1Y	J	BA05FP-E2	AF
IC704	VHiNJ79M08D-1Y	J	NJM79M08DL1A	AF
IC705	VHiNJU7662M-1Y	J	NJU7662M(TE2)	AL
IC706	VHiPQ1R34++-1Y	J	PQ1R34	AE
IC707	VHiPQ1R33//-1Y	J	PQ1R33	AE
IC708	VHiLM1117MJ-1Y	J	LM1117MPX-ADJ	AF
IC709	VHiMM1562FF-1Y	J	MM1562FFBE	AE
IC710	VHiMM1563DF-1Y	J	MM1563DFBE	AE
IC801	VHiVPC3230D1EQ	J	VPC3230D-QA-B3	BD
IC802	VHiNJM2293M-1Y	J	NJM2293M(TE1)	AG
IC803	VHiNJM2268M-1Y	J	NJM2268M-TE1	AF
IC804	VHiBA7046F/-1Y	J	BA7046F	AF
IC805	VHiNJM2233V-1Y	J	NJM2233V	AE
IC806	VHiMM1563DF-1Y	J	MM1563DFBE	AE
IC1101	VHiBD8120FP-1Y	J	BD8120FP	AX
IC1201	VHiDPS9450+-1Q	J	DPS9450A-XZ-A1	BD
IC1202	VHiTC4W66U/-1Y	J	TC4W66FU	AE
IC1601	VHiSDA5550M-1Q	J	SDA5550M	AZ
IC1603	VHiPST3228N1EY	J	PST3228NR	AD
IC1604	VHiMM1501XN-1Y	J	MM1501XNRE	AE
IC1606	VHiPST3221N1EY	J	PST3221NR	AD
IC1608	VHiNC7SZ58P-1Y	J	NC7SZ58P6X	AE
IC1611	RH-iXA745WJN1Q	J	M29W400BT70N6	AP
IC1612	VHi62S8308X-1Q	J	A62S8308X-70SI	AY
IC2001	RH-iXA661WJZZQ	J	I.C.	BA
IC2003	VHiSi3010KM-1Y	J	SI-3010KM-TL	AF
IC2004	VHiMM1573DN-1Y	J	MM1573DNRE	AD
IC2006	VHiBD4729G+-1Y	J	BD4729G-TR	AD
IC2007	VHiBR24C32F-1Y	J	BR24C32F-E2	AH
IC2009	VHiBR2416E2-1Y	J	BR24C16F	AK
IC2010	VHiTC4W66U/-1Y	J	TC4W66FU	AE
IC2011	VHiTC4W66U/-1Y	J	TC4W66FU	AE

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q701	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q702	VSDTC144EE/-1Y	J	DTC144EE	AA
Q703	VSFMMT718//-1Y	J	FMMT718	AE
Q704	VSDTC144EE/-1Y	J	DTC144EE	AA
Q705	VSUMX2N++++-1Y	J	UMX2N	AB
Q801	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q802	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q803	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1101	VSFMMT718//-1Y	J	FMMT718	AE
Q1102	VS2SC4520//-1Y	J	2SC4520	AE
Q1103	VS2SA1729//-1Y	J	2SA1729	AF
Q1104	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1105	VS2SC4520//-1Y	J	2SC4520	AE
Q1106	VS2SA1729//-1Y	J	2SA1729	AF
Q1206	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1601	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1602	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1603	VSDTC144TE/-1Y	J	DTC144EE	AB
Q1604	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1605	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1606	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q1607	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q2001	VSUM5K1NTR+-1Y	J	UM5K1NTR	AC
Q2005	VSDTC114EE/-1Y	J	DTC114EE	AB
Q2006	VSDTC114EE/-1Y	J	DTC114EE	AB
Q2007	VSUPA606T//-1Y	J	UPA606T	AD
Q2008	VSDTC114EE/-1Y	J	DTC114EE	AB
Q2009	VSUPA606T//-1Y	J	UPA606T	AD
Q2011	VSUPA606T//-1Y	J	UPA606T	AD

DIODES

Ref. No.	Part No.	★	Description	Code
D701	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
D702	VHDDAN222//-1Y	J	Diode	AA
D703	VHDDAN222//-1Y	J	Diode	AA
D704	RH-EX1245CEZZY	J	Zener Diode, 5.1V	AB
D705	VHDDAN222//-1Y	J	Diode	AA
D706	VHDDAN222//-1Y	J	Diode	AA
D707	VHDDAN222//-1Y	J	Diode	AA
D708	RH-EX1245CEZZY	J	Zener Diode, 5.1V	AB
D709	VHDDAN222//-1Y	J	Diode	AA
D710	VHDDAN202K/-1Y	J	Diode	AB
D711	VHD1SS250//1EY	J	Diode	AB
D712	VHDDAN222//-1Y	J	Diode	AA
D713	VHDRB481K++-1Y	J	Diode	AD
D714	VHDRB491D++-1Y	J	Diode	AD
D1101	VHD1SS250//1EY	J	Diode	AB
D1103	VHD1SS250//1EY	J	Diode	AB
D1104	VHD1SS250//1EY	J	Diode	AB
D2001	RH-EX1232CEZZY	J	Zener Diode	AB
D2002	VHDDAN202K/-1Y	J	Diode	AB
D2003	VHDDAN202K/-1Y	J	Diode	AB
D2004	VHDRB491D++-1Y	J	Diode	AD

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X801	RCRSC0012CEZZY	J	Crystal, 20.25MHz	AH
X1201	RCRSC0012CEZZY	J	Crystal	AH
X1601	RCRSCA002WJZZY	J	Crystal	AG

FILTER AND COILS

Ref. No.	Part No.	★	Description	Code
FL801	RFiLJA001WJZZY	J	Filter	AG
FL802	RFiLJA001WJZZY	J	Filter	AG
FL2001	RFiLZ0169TAZZY	J	Filter	AD
L701	RCiLPA143WJZZY	J	Coil	AD
L702	VP-1M470J5R4NY	J	Peaking 47µH	AC
L801	RCiLPA143WJZZY	J	Coil	AD
L802	RCiLPA143WJZZY	J	Coil	AD
L803	VP-9N3R3KR46NY	J	Peaking 3.3µH	AC
L804	VP-9N3R3KR46NY	J	Peaking 3.3µH	AC
L805	VP-9N3R3KR46NY	J	Peaking 3.3µH	AC
L1201	VPCGM220M0R5NY	J	Peaking 22µH	AB
L1202	VPCGM220M0R5NY	J	Peaking 22µH	AB
L1203	VPCGM220M0R5NY	J	Peaking 22µH	AB
L1204	VPCGM220M0R5NY	J	Peaking 22µH	AB
L1601	VP-1M270J3R8NY	J	Peaking 27µH	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C701	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C702	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C704	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C705	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C707	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C708	VCEASK1CN227MY	J	220	16V	Electrolytic	AC
C709	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C710	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C711	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C712	RC-KZ0075TAZZY	J	2.2	16V	Ceramic	AC
C713	RC-EZA132WJZZY	J	10	50V	Electrolytic	AC
C714	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C715	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C716	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C717	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C718	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C719	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C720	RC-EZA132WJZZY	J	10	50V	Electrolytic	AC
C721	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C722	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C723	RC-EZA132WJZZY	J	10	50V	Electrolytic	AC
C724	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C725	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C726	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C727	VCEASH0JN227MY	J	220	6.3V	Electrolytic	AC
C728	VCKYCY1CF334ZY	J	0.33	16V	Ceramic	AB
C729	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C730	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C731	RC-EZA131WJZZY	J	4.7	50V	Electrolytic	AC
C732	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C733	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C734	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C735	RC-EZA132WJZZY	J	10	50V	Electrolytic	AC
C736	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C737	VCKYCY1CF334ZY	J	0.33	16V	Ceramic	AB

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MAIN UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
C738	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C739	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C740	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C741	VCEASH1CN107MY	J	100	16V	Electrolytic	AC
C801	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C802	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C803	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C804	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C805	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C806	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C807	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C808	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C809	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C810	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C811	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C812	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C813	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C814	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C815	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C816	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C817	RC-EZA135WJZZY	J	47	6.3V	Electrolytic	AC
C818	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C819	VCKYTV1CF684ZY	J	0.68	16V	Ceramic	AB
C820	VCKYTV1CF684ZY	J	0.68	16V	Ceramic	AB
C821	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C822	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C823	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C824	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C825	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C827	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C828	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C829	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C830	VCKYCY1HB331KY	J	330p	50V	Ceramic	AA
C831	RC-EZA122WJZZY	J	22	6.3V	Electrolytic	AB
C832	VCKYCY1AB224KY	J	0.22	10V	Ceramic	AB
C833	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C834	VCKYCY1HB331KY	J	330p	50V	Ceramic	AA
C835	VCKYCY1AB224KY	J	0.22	10V	Ceramic	AB
C836	RC-EZA124WJZZY	J	10	16V	Electrolytic	AB
C837	VCKYCY1HB331KY	J	330p	50V	Ceramic	AA
C838	VCKYCY1AB224KY	J	0.22	10V	Ceramic	AB
C839	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C840	VCCCCY1HH7R0DY	J	7p	50V	Ceramic	AA
C841	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C842	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C843	VCCCCY1HH7R0DY	J	7p	50V	Ceramic	AA
C844	RC-EZA134WJZZY	J	220	6.3V	Electrolytic	AC
C845	VCKYCY1CF224ZY	J	0.22	16V	Ceramic	AB
C846	VCKYCY1CF224ZY	J	0.22	16V	Ceramic	AB
C847	VCKYCY1CF224ZY	J	0.22	16V	Ceramic	AB
C848	RC-KZ0117TAZZY	J	4.7	6.3V	Ceramic	AD
C849	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C850	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C851	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C852	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C854	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C856	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C857	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C863	VCKYCY1EB473KY	J	0.047	25V	Ceramic	AA
C865	VCKYCY1EB473KY	J	0.047	25V	Ceramic	AA
C866	VCKYCY1EB473KY	J	0.047	25V	Ceramic	AA
C1101	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1102	RC-EZ1339CEZZY	J	220	16V	Electrolytic	AD
C1104	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1105	VCCCCY1HH181JY	J	180p	50V	Ceramic	AA
C1106	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1107	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C1108	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C1109	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C1110	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1111	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1112	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1113	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1114	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C1115	VCKYTV1CB334KY	J	0.33	16V	Ceramic	AC
C1116	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1117	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1118	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C1119	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C1122	RC-EZ1339CEZZY	J	220	16V	Electrolytic	AD
C1201	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1202	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1203	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1204	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1205	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1206	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C1207	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C1208	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1209	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1210	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1211	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1212	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1213	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1214	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1215	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1216	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1217	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1218	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1219	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1220	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1221	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1222	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1223	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1224	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1225	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1226	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1227	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1228	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1229	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1230	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1231	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C1232	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C1233	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C1234	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC
C1235	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1236	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1237	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1238	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1243	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1244	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C1601	RC-KZ0074TAZZY	J	10	6.3V	Ceramic	AF
C1603	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1607	RC-EZA199WJZZY	J	10	25V	Electrolytic	AC
C1610	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1613	VCE9PF0JN226MY	J	22	6.3V	Elect. (N.P)	AD
C1615	RC-EZA125WJZZY	J	22	16V	Electrolytic	AC
C1616	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1619	VCCCCY1HH181JY	J	180p	50V	Ceramic	AA
C1620	VCE9PF0JN226MY	J	22	6.3V	Elect. (N.P)	AD
C1622	RC-EZA122WJZZY	J	22	6.3V	Electrolytic	AB
C1623	RC-EZA135WJZZY	J	47	6.3V	Electrolytic	AC
C1624	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1625	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1626	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1627	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1628	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1629	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1630	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1631	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1632	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1633	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C1634	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1639	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1640	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C1641	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C1643	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
C1644	RC-KZ0074TAZZY	J	10	6.3V	Ceramic	AF
C1649	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2002	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C2004	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2005	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C2006	RC-EZA122WJZZY	J	22	6.3V	Electrolytic	AB
C2007	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2009	RC-KZ0074TAZZY	J	10	6.3V	Ceramic	AF
C2013	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2017	VCKYTV1CF684ZY	J	0.68	16V	Ceramic	AB
C2019	RC-EZA124WJZZY	J	10	16V	Electrolytic	AB
C2020	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2022	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2023	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2025	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2026	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2027	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2028	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2029	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C2030	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C2031	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA

RESISTORS

R703	VRS-TW2HF2R2JY	J	2.2	1/2W	Metal Oxide	AA
R704	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R705	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R706	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R708	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R709	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R710	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R711	VRS-TW2ED103JY	J	10k	1/4W	Metal Oxide	AA
R712	VRS-CY1JF680FY	J	68	1/16W	Metal Oxide	AA
R714	VRS-CY1JF151FY	J	150	1/16W	Metal Oxide	AA
R715	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R716	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R717	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R718	VRS-TW2HF330JY	J	33	1/2W	Metal Oxide	AA
R721	VRS-TV1JD562JY	J	5.6k	1/10W	Metal Oxide	AA
R723	VRS-TW2ED150JY	J	15	1/4W	Metal Oxide	AA
R724	VRS-TW2HF472JY	J	4.7k	1/2W	Metal Oxide	AA
R803	VRS-CY1JF105JY	J	1 M	1/16W	Metal Oxide	AA
R805	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R806	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R807	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R808	VRS-CY1JF474JY	J	470k	1/16W	Metal Oxide	AA
R810	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R811	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R812	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R814	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R815	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R816	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R817	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R818	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R819	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R820	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R821	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R823	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R827	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R828	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R829	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R835	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R836	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R837	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R838	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R839	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R841	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R842	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R843	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R845	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R847	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R853	VRS-CA1JF220JY	J	22	1/16W	Metal Oxide	AA
R854	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R856	VRS-CY1JF392FY	J	3.9k	1/16W	Metal Oxide	AA
R1101	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R1102	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R1103	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R1104	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1105	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R1106	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1107	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R1108	VRS-TW2ED102JY	J	1k	1/4W	Metal Oxide	AA
R1109	VRS-TW2ED5R6JY	J	5.6	1/4W	Metal Oxide	AA
R1110	VRS-TW2ED8R2JY	J	8.2	1/4W	Metal Oxide	AA
R1111	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1112	VRS-CY1JF181JY	J	180	1/16W	Metal Oxide	AA
R1113	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF181JY	J	180	1/16W	Metal Oxide	AA
R1115	VRS-TW2HF100JY	J	10	1/2W	Metal Oxide	AA
R1117	VRS-TW2HF5R6JY	J	5.6	1/2W	Metal Oxide	AA
R1118	VRS-TW2HF5R6JY	J	5.6	1/2W	Metal Oxide	AA
R1119	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R1121	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1122	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1123	VRS-TW2HF000JY	J	0	1/2W	Metal Oxide	AA
R1124	VRS-TW2HF101JY	J	100	1/2W	Metal Oxide	AA
R1126	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1128	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1206	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1207	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1208	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1209	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R1210	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1213	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R1214	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R1215	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R1216	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R1217	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R1218	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1219	VRS-CY1JF105JY	J	1 M	1/16W	Metal Oxide	AA
R1220	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R1221	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1222	VRS-CY1JF680JY	J	68	1/16W	Metal Oxide	AA
R1223	VRS-CY1JF220JY	J	22	1/16W	Metal Oxide	AA
R1224	VRS-CH1JF470JY	J	47	1/16W	Metal Oxide	AA
R1225	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1227	VRS-CH1JF470JY	J	47	1/16W	Metal Oxide	AA
R1228	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1229	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1230	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R1231	VRS-CH1JF470JY	J	47	1/16W	Metal Oxide	AA
R1232	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1233	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R1234	VRS-CA1JF470JY	J	47	1/16W	Metal Oxide	AB
R1235	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1236	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1237	VRS-CY1JF220JY	J	22	1/16W	Metal Oxide	AA
R1238	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R1239	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1240	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1241	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1242	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R1257	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1261	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1267	VRS-CH1JF470JY	J	47	1/16W	Metal Oxide	AA
R1268	VRS-CH1JF470JY	J	47	1/16W	Metal Oxide	AA
R1269	VRS-CH1JF470JY	J	47	1/16W	Metal Oxide	AA
R1602	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R1603	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1604	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1605	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1607	VRS-CY1JF391FY	J	390	1/16W	Metal Oxide	AA
R1608	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1609	VRS-CY1JF681JY	J	680	1/16W	Metal Oxide	AA
R1610	VRS-CY1JF391FY	J	390	1/16W	Metal Oxide	AA
R1611	VRS-CY1JF132JY	J	1.3k	1/16W	Metal Oxide	AG
R1614	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
R1615	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R1616	VRS-CY1JF391FY	J	390	1/16W	Metal Oxide	AA
R1617	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1618	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R1619	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R1620	VRS-CY1JF681FY	J	680	1/16W	Metal Oxide	AA
R1621	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1622	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1623	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1624	VRS-CY1JF681FY	J	680	1/16W	Metal Oxide	AA
R1625	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R1627	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R1628	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1629	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R1631	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R1632	VRS-CB1JF332JY	J	3.3k	1/16W	Metal Oxide	AC
R1635	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R1637	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R1645	VRS-CA1JF221JY	J	220	1/16W	Metal Oxide	AC
R1647	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R1655	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R1656	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R1657	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R1661	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R1665	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R2002	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R2005	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2008	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2009	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2011	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA
R2014	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R2018	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2023	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2024	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2025	VRS-CA1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2026	VRS-CA1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2027	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2032	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2034	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2037	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2038	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2041	VRS-CA1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2043	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2045	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2046	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2047	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2048	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2049	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2053	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2054	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R2055	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2057	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2059	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2060	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2062	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2063	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R2064	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2065	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2066	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2067	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2069	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2072	VRS-CA1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2074	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2075	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2076	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2077	VRS-CA1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2078	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2079	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2080	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2081	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2083	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2088	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R2089	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2091	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R2092	VRS-CA1JF153JY	J	15k	1/16W	Metal Oxide	AB
R2093	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2095	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2096	VRS-CB1JF101JY	J	100	1/16W	Metal Oxide	AA
R2097	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2099	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2100	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2101	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2102	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2103	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2107	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R2108	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2109	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA
R2111	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2112	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2115	VRS-CA1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2118	VRS-CA1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2124	VRS-CY1JF433FY	J	43k	1/16W	Metal Oxide	AA
R2126	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R2130	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2131	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2132	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2133	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2134	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2135	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2136	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA

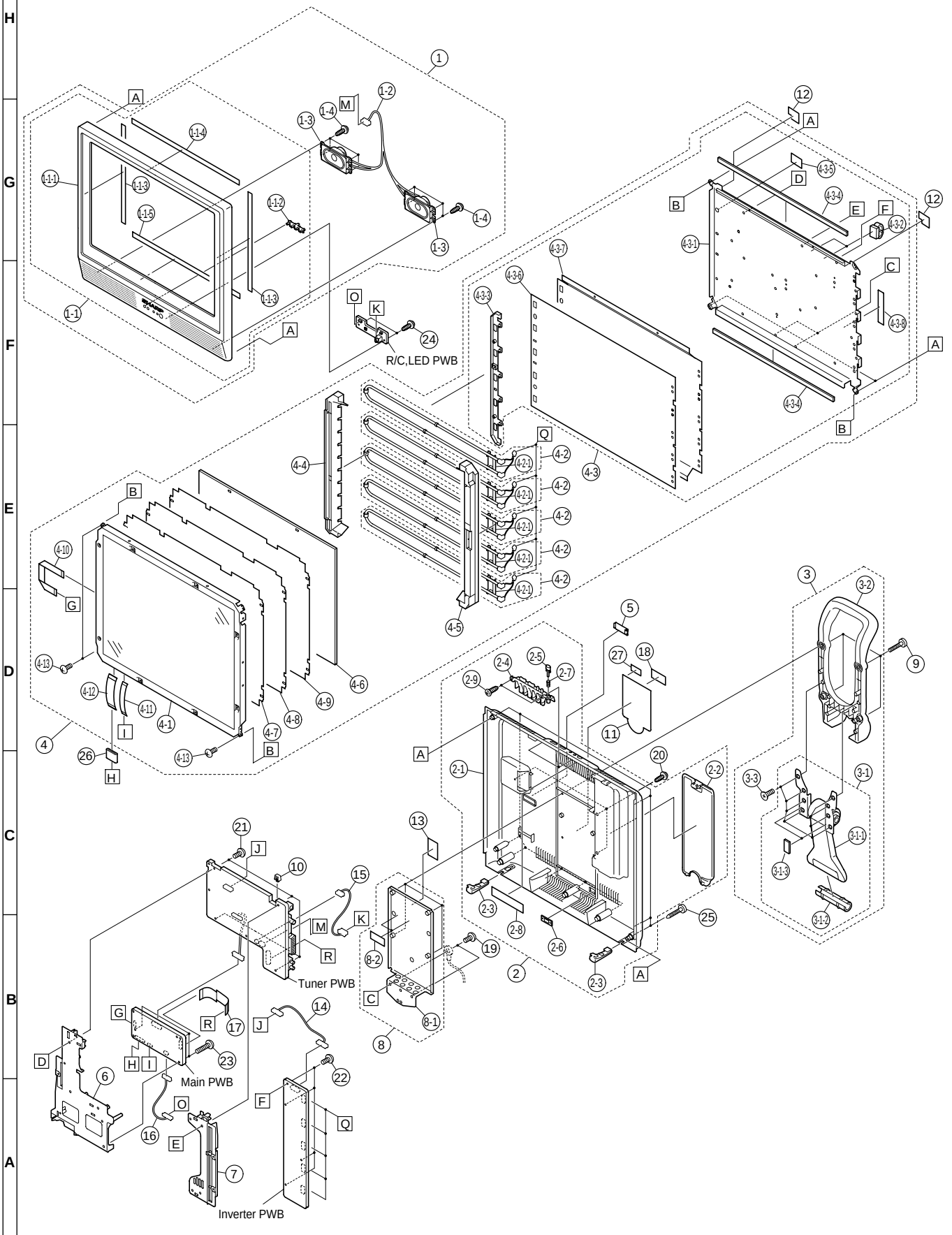
MISCELLANEOUS PARTS

FB701	RBLN-0006TAZZY	J	Ferrite Bead	AB
FB702	RBLN-0006TAZZY	J	Ferrite Bead	AB
FB1201	RBLN-0083GEZZY	J	Ferrite Bead	AB
FB1601	RBLN-0006TAZZY	J	Ferrite Bead	AB
FB1603	RBLN-0006TAZZY	J	Ferrite Bead	AB
FB1605	RBLN-0006TAZZY	J	Ferrite Bead	AB
FB1606	RBLN-0006TAZZY	J	Ferrite Bead	AB
FB1607	RBLN-0076TAZZY	J	Ferrite Bead	AC
FB1608	RBLN-0076TAZZY	J	Ferrite Bead	AC
FB1609	RBLN-0076TAZZY	J	Ferrite Bead	AC
P701	QPLGN0185FJZZY	J	Plug, 13-pin(MB)	AE
P2001	QPLGN0963TAZZY	J	Plug, 9-pin(MS)	AD
SC1202	QSOCNA002WJPZY	J	Socket, 20-pin(LK)	AD
SC1203	QSOCN0687FJZZY	J	Socket, 50-pin(LS)	AF
SC1204	QSOCN0684FJZZY	J	Socket, 30-pin(LG)	AF
SC2001	QSOCN0464FJZZY	J	Socket, 50-pin(MA)	AH
TP2002	QLUGHA006WJZZY	J	Lug	AA
TP2052	QLUGHA006WJZZY	J	Lug	AA
TP2053	QLUGHA006WJZZY	J	Lug	AA

CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	*Not Available*	–	Cabinet A Ass'y Unit	—
1-1	CCABAA370WJ02	S	Cabinet A Ass'y	BP
1-1-1	*Not Available*	–	Cabinet A	—
1-1-2	HDECQA269WJSA	J	R/C, LED Cover	AE
1-1-3	PSPAHA040WJZZ	J	Spacer, x2	AD
1-1-4	PSPAHA041WJZZ	J	Spacer, x1	AD
1-1-5	PSPAHA213WJZZ	J	Spacer, x1	AD
1-2	QCNW-B521WJQZ	J	Connecting Cord(SP)	AG
1-3	VSP7040PB608S	J	Speaker, x2	AN
1-4	XEBSD40P10000	J	Screw, x8	AB
2	CCABBA263WJ02	S	Cabinet B Ass'y	BM
2-1	*Not Available*	–	Cabinet B	—
2-2	GCOVAA500WJKA	J	Terminal Cover	AM
2-3	GLEGGA026WJSA	J	Rubber Leg, x2	AF
2-4	JBTN-A181WJKA	J	Operation Button	AL
2-5	JBTN-A184WJKA	J	Power Button	AG
2-6	LANGF2155CEFW	J	Round Lock	AD
2-7	MSPRCA014WJFW	J	Power Button Spring	AB
2-8	PSPAHA279WJZZ	J	Spacer, x1	AC
2-9	XEBSN30P08000	J	Screw, x2	AA
3	CDAi-A087WJ01	J	Stand Ass'y	BD
3-1	CDAi-A087WJ02	J	Stand Base Ass'y	BA
3-1-1	*Not Available*	–	Stand Joint	—
3-1-2	GLEGGA029WJSA	J	Rubber Leg	AF
3-1-3	PSPAZA083WJZZ	J	Spacer, x2	AB
3-2	JHNDPA004WJSA	J	Stand Handle	AT
3-3	XESSN40P10000	J	Screw, x8	AB
4	*Not Available*	–	20" LCD Panel Unit Ass'y	—
4-1	RLCDTA025WJZZ	J	20" LCD Panel Unit	DB
⚠ 4-2	CLMP-A024WJ01	J	Lamp Unit Ass'y, x5	AY
4-2-1	LHLDZA214WJKZ	J	Lamp Clip, x1	AD
4-3	*Not Available*	–	Back Shield Ass'y	—
4-3-1	PSLDMA251WJFW	J	Back Shield	AX
4-3-2	LHLDW1123GEZZ	J	Wire Holder, x2	AB
4-3-3	LHLDZA213WJKZ	J	Lamp Holder(Bottom)	AG
4-3-4	PMLT-A078WJZZ	J	Light Shielding Spacer, x2	AE
4-3-5	PMLT-A079WJZZ	J	Light Shielding Spacer	AB
4-3-6	PSHEPA103WJZZ	J	Reflection Sheet(Top)	AL
4-3-7	PSHEPA104WJZZ	J	Reflection Sheet(Bottom)	AK
4-3-8	TCAUZA031WJZZ	J	Caution Label	AB
4-4	LHLDZA211WJKZ	J	Lamp Holder(Top)-A	AL
4-5	LHLDZA212WJKZ	J	Lamp Holder(Top)-B	AL
4-6	PCOVUA014WJZZ	J	Diffusion Plate	AX
4-7	PSHEPA101WJZZ	J	Reflection/Deflection Sheet	BM
4-8	PSHEPA102WJZZ	J	Prism Sheet	BB
4-9	PSHEPA127WJZZ	J	Diffusion Sheet	AN
4-10	QCNW-B523WJQZ	J	Connecting Cord	AE
4-11	QCNW-B524WJQZ	J	Connecting Cord	AC
4-12	QCNW-B525WJQZ	J	Connecting Cord	AD
4-13	XBPSN26P05J00	J	Screw, x3	AA
5	GCOVAA503WJKA	J	Bass Cone Cover	AE
6	LCHSMA039WJKA	J	Chassis Frame(L)	AL
7	LCHSMA044WJKA	S	Chassis Frame(R)	AS
8	CANGTA078WJ01	J	Reinforcement Angle Ass'y	AQ
8-1	LANGTA078WJFW	J	Reinforcement Angle	AP
8-2	PSPAHA280WJZZ	J	Spacer, x2	AB
9	LX-BZ3442CEF9	J	Screw, x4	AB
10	LHLDZA251WJKZ	J	Power Button Holder	AD
11	HiNDPA564WJSA	S	Model Label	AK
12	PMLT-A075WJZZ	J	Light Shielding Spacer, x2	AC
13	PSLDMA285WJZZ	S	Shield	AE
14	QCNW-B518WJQZ	J	Connecting Cord	AL
15	QCNW-B520WJQZ	J	Connecting Cord	AE
16	QCNW-B522WJQZ	J	Connecting Cord	AH
17	QCNW-B526WJQZ	J	Connecting Cord	AD
18	*Not Available*	–	Serial No. Label	—
19	XBBSD40P06000	J	Screw, x2	AA
20	XBBSF30P04000	J	Screw, x3	AA
21	XBPS930P11JS0	J	Screw, x4	AB
22	XBPSD30P10JS0	J	Screw, x3	AA
23	XBPSD30P20JS0	J	Screw, x3	AA
24	XEBSD30P08000	J	Screw, x2	AA
25	XEBSF40P20000	J	Screw, x9	AB
26	RCORFA026WJZZ	S	Core	AM
27	TLABSA028WJSA	S	GOST Label(LC-20S1E(R))	

CABINET AND MECHANICAL PARTS



Ref. No.	Part No.	★	Description	Code

ACCESSORIES

	LHLDWA002WJSB	J	Cable Clamp, x1	AD
⚠	QACCBA016WJPZ	J	AC Cord(LC-20S1E(K))	AR
⚠	QACCKA006WJPZ	J	AC Cord(LC-20S1E/E(R))	AL
	RRMCGA074WJSA	J	Infrared R/C Unit	AU
	TGAN-1688CEN1	J	Guarantee Card (LC-20S1E(K))	AN
	TGAN-A077WJZZ	J	Guarantee Card (LC-20S1E(R))	AE
	TiNS-A837WJZZ	S	Operation Manual	AZ
	TiNS-A838WJZZ	S	Operation Manual (LC-20S1E(R))	
	TLABSA028WJSA	S	GOST Label(for AC Adapter) (LC-20S1E(R))	
⚠	UADP-A043WJPZ	J	AC Adapter	BC

SERVICE JIGS
(USE FOR SERVICING)

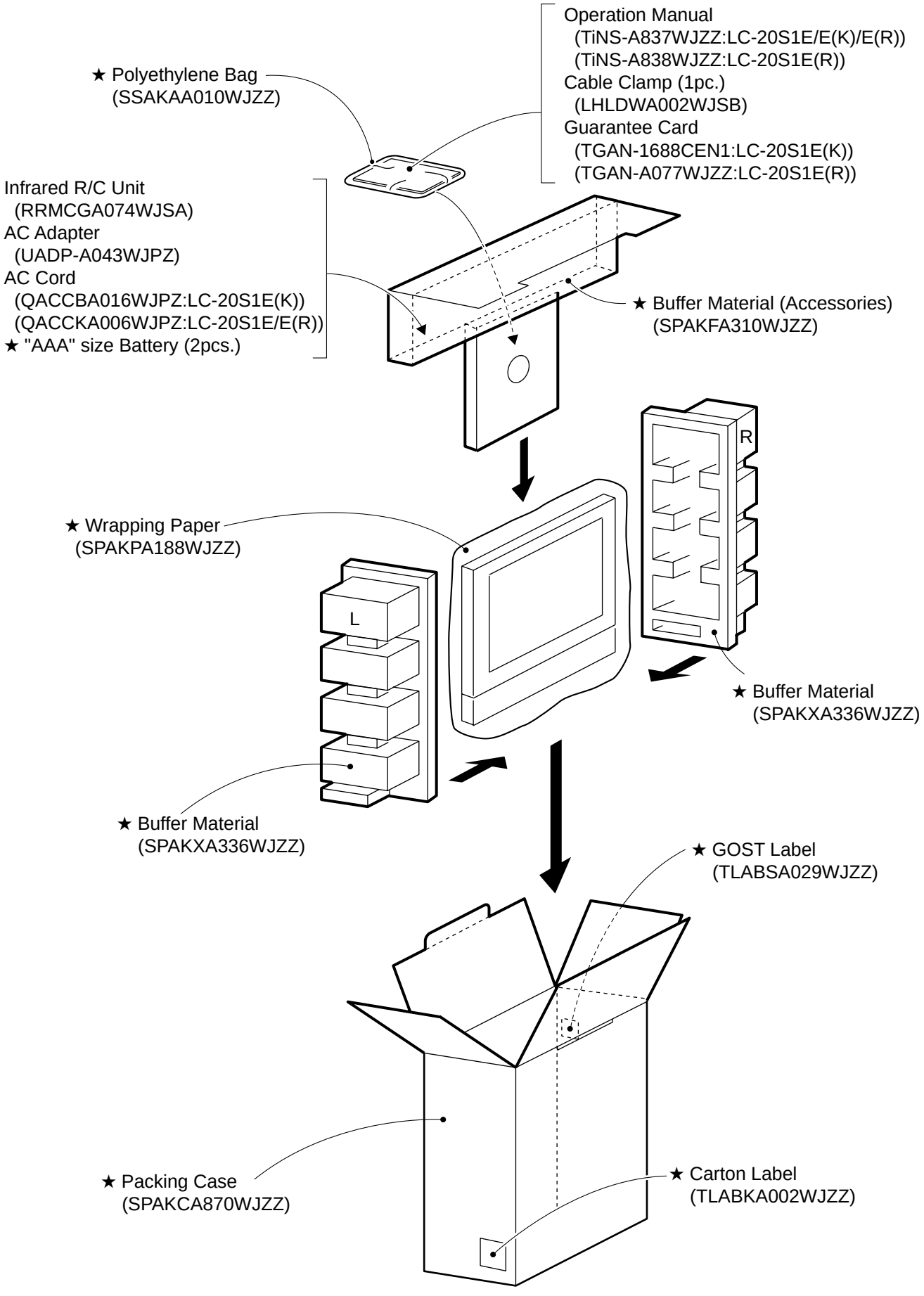
	QCNW-A369WJZZ	J	Extension Cable 50-pin Main(SC2001)-Tuner (SC3901)	AT
	QCNW-B594WJZZ	J	Extension Cable 13-pin Main(P701)-Tuner(P1900)	AX

Ref. No.	Part No.	★	Description	Code

PACKING PARTS
(NOT REPLACEMENT ITEM)

	SPAKCA870WJZZ	–	Packing Case	—
	SPAKFA310WJZZ	–	Buffer Material (Accessories)	—
	SPAKPA188WJZZ	–	Wrapping Paper	—
	SPAKXA336WJZZ	–	Buffer Material	—
	SSAKAA010WJZZ	–	Polyethylene Bag	—
	TLABKA002WJZZ	–	Carton. Label	—
	TLABN0134BMZZ	–	SEES No. Label	—
	TLABSA029WJZZ	–	GOST Label (LC-20S1E(R))	—

PACKING OF THE SET



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